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ENERAL CATALOG

1962-1964



STATE COLLEGE RECORD

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University of North Carolina

NORTH CAROLINA

STATE COLLEGE

GENERAL CATALOG

Catalog Issue 1962-1964

Announcements for Sessions 1962-1963, 1963-1964

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING ESTABLISHED 1887

Contents

Officers of Administration	5
Calendar	7
General Information	11
History	11
Campus	11
Services	12
Summary of Enrollment	12
Admission Requirements	13
Grades and Scholarships	17
General Policies	20
Residence Status for Tuition Payment	21
Tuition and Fees	22
Student Activities and Services	27
Military Training	41
Schools and Programs of Study	47
School of Agriculture	51
School of Design	101
School of Education	111
School of Engineering	127
School of Forestry	177
School of General Studies	193
School of Physical Sciences and Applied Mathematics	201
School of Textiles	213
Graduate School	231
College Extension Division	233
Descriptions of Courses	235
Administration and Faculty	385
Alumni Association	385
College Foundations	386
Trustees	388
Teaching and Professional Faculty	391
Emeriti Faculty	416
Special Staff	418
Accreditations and Memberships	419



THE CONSOLIDATED UNIVERSITY OF NORTH CAROLINA

OFFICERS OF ADMINISTRATION

(General Administrative Officers at Chapel Hill)

By act of the General Assembly of 1931 the University of North Carolina at Chapel Hill, the North Carolina College for Women at Greensboro, and the North Carolina State College of Agriculture and Engineering at Raleigh were consolidated into the University of North Carolina.

The administrative officers of The University of North Carolina include:

William Clyde Friday, B.S., LL.B., LL.D., President

Vice President and Finance Officer (Position Vacant)

Donald Benton Anderson, B.A., B.Sc., Ed., M.A., Ph.D., Vice President for Graduate Studies and Research

Alexander Hurlbutt Shepard, Jr., A.B., M.A., Business Officer and Treasurer

Frederick Henry Weaver, A.B., M.A., Secretary

The Vice President and Finance Officer has general administrative responsibilities and is specifically concerned with the development programs of the University, the presentation of University budget requests to the several agencies of State Government, the Escheats Fund, and relationships with national foundations and agencies of the Federal Government.

The Vice President for Graduate Studies and Research, working with the University Graduate Executive Council and the three Deans of the Graduate School, has the responsibility for the coordination of the graduate offerings and research programs of the University.

The Business Officer and Treasurer has the responsibility of overall supervision of the preparation of the University budget requests and the expenditure of authorized budgets. This officer is also responsible for the administration within the University of those enactments of the General Assemblies that relate to the classification of personnel under the State Personnel Act.

The Secretary of the University performs general administrative duties and is the principal liaison officer with the Board of Trustees.

Each of these officers and the Chancellors of the component institutions are responsible to the President as the principal executive officer of the University of North Carolina.

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING

OFFICERS OF ADMINISTRATION

CHANCELLOR

John Tyler Caldwell, B.S., M.A., Ph.D., "A" Holladay Hall

ACADEMIC AFFAIRS

Harry C. Kelly, B.S., M.S., Ph.D., Dean of the Faculty, 110 Holladay Hall

SCHOOL OF AGRICULTURE

H. Brooks James, Dean, 115 Patterson Hall

D. S. Weaver, Special Assistant to the Dean, 110 Patterson Hall

E. W. Glazener, Director of Instruction, 111 Patterson Hall

R. L. Lovvorn, Director, Research, 107 Patterson Hall

R. W. Shoffner, Director, Agricultural Extension Service, 104 Ricks Hall

Charles W. Williams, Administrative Officer, 101-B Patterson Hall

SCHOOL OF DESIGN

Henry L. Kamphoefner, Dean, 200 Brooks Hall

SCHOOL OF EDUCATION

J. Bryant Kirkland, Dean, 119 Tompkins Hall

SCHOOL OF ENGINEERING

Ralph E. Fadum, Dean, 229 Riddick Building
 R. G. Carson, Jr., Director of Instruction, 232 Riddick Building
 N. W. Conner, Director, Engineering Research, 129 Riddick Building
 W. C. Bell, Director, Industrial Experimental Service, 3 IES Building

SCHOOL OF FORESTRY

Richard J. Preston, Dean, 160 Kilgore Hall

SCHOOL OF GENERAL STUDIES

Fred V. Cahill, Jr., Dean, 162 Harrelson Hall

SCHOOL OF PHYSICAL SCIENCES AND APPLIED MATHEMATICS

Arthur Clayton Menius, Jr., Dean, 118 Riddick Building
 Carey G. Mumford, Assistant to the Dean, 119 Riddick Building

SCHOOL OF TEXTILES

Malcolm E. Campbell, Dean, 101 Nelson Building

COLLEGE EXTENSION

Edward W. Ruggles, Director, College Extension Division, 118 1911 Building

GRADUATE SCHOOL

Walter J. Peterson, Dean, 145 Gardner Hall

LIBRARY

Harlan C. Brown, Librarian, 132 D. H. Hill Library

WUNC-TV

George L. Hall, Director of Television

STUDENT AFFAIRS

James J. Stewart, Jr., Dean, 101 Holladay Hall

ADMISSIONS AND REGISTRATION

K. D. Raab, Director, 13 Holladay Hall

STUDENT ACTIVITIES

B. C. Talley, Jr., Director, 206 Holladay Hall

RELIGIOUS PROGRAMS

O. B. Wooldridge, Jr., Director, King Religious Center

MUSIC ACTIVITIES

J. Perry Watson, Director, 104 Pullen Hall

COLLEGE UNION

Henry Bowers, Director, College Union

Richard S. Heaton, Associate Director, College Union

STUDENT HOUSING

N. B. Watts, Director, 207 Holladay Hall

James S. Fulghum, Jr., Housing Rental Officer, Leazar Hall

DEPARTMENT OF COUNSELING

Lyle B. Rogers, Director, 201 Holladay Hall

Kingston Johns, Jr., Financial Aid Officer, 207 Holladay Hall

STUDENT HEALTH SERVICE

J. J. Combs, College Physician, Clark Infirmary

MILITARY TRAINING

Air Force ROTC, Col. James D. Howder, 145 Coliseum

Army ROTC, Col. L. W. Merriam, 154 Coliseum

INTERCOLLEGIATE ATHLETICS

Roy B. Clogston, Athletics Director and Director of Coliseum, 105 Coliseum

DEVELOPMENT AFFAIRS

L. L. Ray, Director, Development and Foundations, "A" Holladay Hall

H. W. Taylor, Director, Alumni Affairs, 103 Alumni Building

Hardy D. Berry, Director, Information Services, Watauga Hall

BUSINESS AFFAIRS

J. G. Vann, Business Manager, 105 Holladay Hall

W. L. Turner, Assistant Business Manager, Holladay Hall

John D. Wright, Assistant Budget Officer, "B" Holladay Hall

John C. Williams, Purchasing Agent, 107 1911 Building

J. McCree Smith, Director, Maintenance and Operations, College Engineer, Morris Building

Fred V. Coleman, Slater Food Service, Leazar Dining Hall

L. L. Ivey, Manager of Student Stores, SSS Building

Calendar

Fall Semester, 1962

Sept. 10	Monday	General faculty meeting.
Sept. 10-12	Monday-Wednesday	New student orientation.
Sept. 13	Thursday	Freshman registration.
Sept. 14	Friday	Upperclassman registration. Late registration fee of \$5.00 payable by all who register after Sept. 14.
Sept. 14-15	Friday-Saturday	Continuation of new student orientation.
Sept. 17	Monday	Classes begin at 8:00 a.m.
Sept. 21	Friday	Last day for registration. Last day for refund less \$5.00 registration fee.
Sept. 28	Friday	Last day to add a course.
Oct. 5	Friday	Last day to drop a course without failure.
Nov. 10	Saturday	Mid-term reports.
Nov. 21	Wednesday	Thanksgiving holidays begin at 1:00 p.m.
Nov. 26	Monday	Classwork resumes at 8:00 a.m.
Nov. 27	Tuesday	Last day to withdraw from school without failures.
Dec. 19	Wednesday	Christmas holidays begin at 6:00 p.m.
Jan. 3, 1963	Thursday	Classwork resumes at 8:00 a.m.
Jan. 16	Wednesday	Last day of classes.
Jan. 17	Thursday	Reading day.
Jan. 18-25	Friday-Friday	Final examinations.

Spring Semester, 1963

Jan. 31	Thursday	Orientation of new students.
Feb. 1	Friday	Registration. Late registration fee of \$5.00 payable by all who register after Feb. 1.
Feb. 4	Monday	Classes begin at 8:00 a.m.
Feb. 8	Friday	Last day to register. Last day for refund less \$5.00 registration fee.
Feb. 15	Friday	Last day to add a course.
Feb. 22	Friday	Last day to drop a course without failure.
March 23	Saturday	Mid-term reports.
April 5	Friday	Last day for withdrawing from school without failures.
April 11	Thursday	Easter holidays begin at 12:00 noon.
April 17	Wednesday	Classwork resumes at 8:00 a.m.
May 22	Wednesday	Last day of classes.
May 23	Thursday	Reading day.
May 24-31	Friday-Friday	Final examinations.
June 1	Saturday	Commencement.

Summer Sessions, 1963

First Session

June 10	Monday	New student orientation.
June 11	Tuesday	Registration and fee payment for regular session. Late registration fee of \$5.00 payable by all registering after June 11.
June 12	Wednesday	First day of classes.
June 17	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
June 21	Friday	Last day to drop courses without failure and last day to withdraw without failure.

July 4-5	Thursday-Friday	Holidays.
July 18	Thursday	Last day of classes.
July 19	Friday	Final examinations.

Second Session

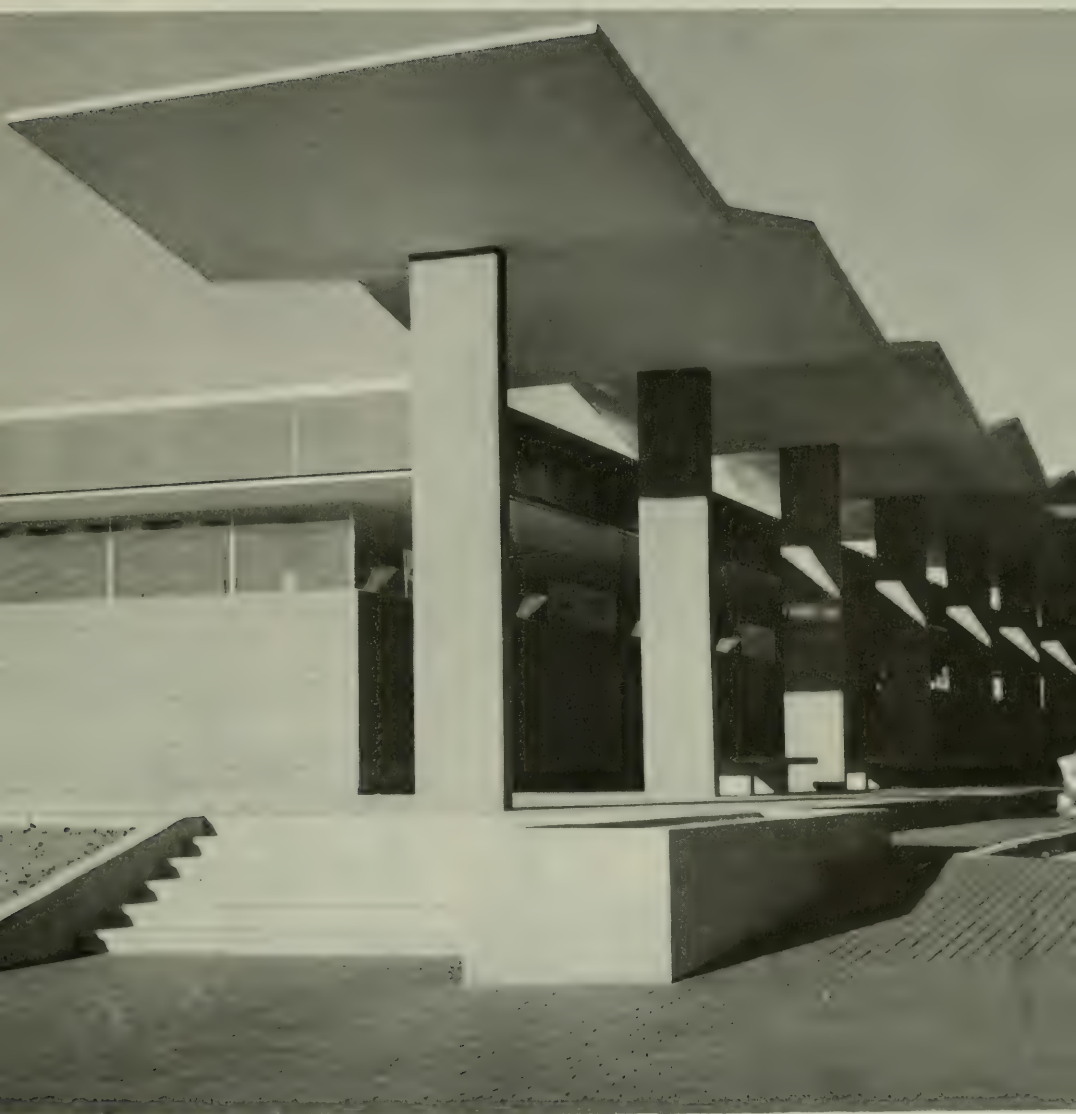
July 19	Friday	New student orientation.
July 22	Monday	Registration and fee payment. Late registration fee of \$5.00 payable by all registering after July 22.
July 23	Tuesday	First day of classes.
July 29	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
Aug. 2	Friday	Last day to drop courses without failure and last day to withdraw without failure.
Aug. 23	Friday	Last day of classes.
Aug. 24	Saturday	Final examinations.

Fall Semester, 1963

Sept. 9	Monday	General faculty meeting.
Sept. 9-11	Monday-Wednesday	New student orientation.
Sept. 12	Thursday	Freshman registration.
Sept. 13	Friday	Upperclassman registration. Late registration fee of \$5.00 payable by all who register after Sept. 13.
Sept. 13-14	Friday-Saturday	Continuation of freshman orientation.
Sept. 16	Monday	Classes begin at 8:00 a.m.
Sept. 20	Friday	Last day for registration. Last day to withdraw with refund less \$5.00 registration fee.
Sept. 27	Friday	Last day to add a course.
Oct. 4	Friday	Last day to drop a course without failure.
Nov. 9	Saturday	Mid-term reports.
Nov. 27	Wednesday	Thanksgiving holidays begin at 1:00 p.m.
Dec. 2	Monday	Classwork resumes at 8:00 a.m.
Dec. 3	Tuesday	Last day to withdraw from school without failures.
Dec. 19	Thursday	Christmas holidays begin at 6:00 p.m.
Jan. 6, 1964	Monday	Classwork resumes at 8:00 a.m.
Jan. 15	Wednesday	Last day of classes.
Jan. 16	Thursday	Reading day.
Jan. 17-24	Friday-Friday	Final examinations.

Spring Semester, 1964

Jan. 30	Thursday	New student orientation.
Jan. 31	Friday	Registration. Late registration fee of \$5.00 payable by all who register after Jan. 31.
Feb. 3	Monday	Classes begin at 8:00 a.m.
Feb. 7	Friday	Last day to register. Last day to withdraw with refund less \$5.00 registration fee.
Feb. 14	Friday	Last day to add a course.
Feb. 21	Friday	Last day to drop a course without failure.
March 21	Saturday	Mid-term reports.
March 25	Wednesday	Easter holidays begin at 6:00 p.m.
March 30	Tuesday	Classwork resumes at 8:00 a.m.
April 6	Monday	Last day for withdrawing from school without failures.
May 20	Wednesday	Last day of classes.
May 21	Thursday	Reading day.
May 22-29	Friday-Friday	Final examinations.
May 30	Saturday	Commencement.





GENERAL INFORMATION

History

North Carolina State College, the State's technological institution of higher learning and Land-Grant College, was founded by legislative act on March 7, 1887. Prior to this time, the Morrill Act of 1862 authorized the use of public land or its equivalent in land script for the creation of an agricultural and mechanical college in each State. North Carolina did not establish such a specialized institution until State College was founded.

First named the North Carolina College of Agriculture and Mechanic Arts, the institution began operations with 45 students and six teachers on October 3, 1889. The first president was Colonel Alexander Q. Holladay for whom the first building was later named.

The College's name was changed to the North Carolina State College of Agriculture and Engineering in 1917. In 1931, the North Carolina General Assembly formed the Consolidated University of North Carolina, embracing the University of North Carolina in Chapel Hill, the North Carolina State College of Agriculture and Engineering in Raleigh, and the Woman's College in Greensboro.

After World War II, returning service men nearly tripled any previous State College enrollment. Today, State College is one of the best-housed and best-equipped technological institutions of higher learning in the nation. Through its expanded operations, State College has grown in size and service to the people of North Carolina and in prestige throughout the nation and the world for its diverse programs in teaching, research, and extension services. At the beginning of the 1961 fall semester the student body numbered more than 7,000 young men and women with 660 members of the teaching staff and a total staff of nearly 3,000 persons including administrative, extension, and research personnel across the State.

Campus

Adjoining the central North Carolina State College campus at Raleigh are the College farms. In addition to these holdings in the Raleigh area, the State College Experiment Station operates a number of forest farms in every geographical area of the State, and the School of Forestry has large holdings of experimental woodlands in the Coastal Plain, the Piedmont, and the mountain regions of North Carolina.

The College's physical plant is valued at over \$50,000,000 with a multi-million dollar construction program now in progress. The College has 73 major buildings.

Of the buildings, new and old, a few deserve special mention.

Harrelson Hall . . . circular classroom building, can seat 3,500 students at a time in 77 classrooms which can hold 18 to 189 students.

William D. Carmichael Gymnasium . . . valued at approximately \$2,600,000, features modern facilities.

Bragaw Dormitory . . . first occupied in 1958, built at a cost of \$2,000,000, all corridors are on the outside.

Student Supply Store . . . ultra-modern structure, offers reading material ranging from 25-cent paperbacks to the latest engineering encyclopedia.

Memorial Tower . . . a 116-foot campanile of white Mount Airy granite, is a monument to the State College men who lost their lives in World War I.

Holladay Hall . . . oldest building on campus, once the total college plant, completely remodeled inside, housing administration.

William Neal Reynolds Coliseum . . . one of the country's largest indoor stadiums, seating 12,500 for sports attractions and more for stage events.

Erdahl-Cloyd Union . . . one of the nation's most modern student-faculty activities centers.

McKimmon Village . . . a 300-unit married student housing center.

Services

State College serves the people of North Carolina in six main ways. The citizenry is reached through: resident instruction, off-campus instruction in College Extension Division courses, off-campus Agricultural Extension Service demonstrations, special instruction in technical institutes, industrial and agricultural research—both basic and applied, and direct contact with the home by means of radio and television.

Summary of Enrollment

The enrollment at North Carolina State College for the 1961 fall semester totaled 7,117 students, 6,944 men and 173 women.

Enrollment by Classification		Enrollment by Schools	
Freshmen	1961	Agriculture	867
Sophomores	1348	Design	351
Juniors	1095	Education	577
Seniors	1339	Engineering	3485
5th Year Professionals	35	Forestry	413
Graduates	897	Physical Sciences and Applied	
Unclassified	198	Mathematics	554
Agricultural Institute	212	Textiles	448
Special and Auditors	32	General Studies (Auditors	
		and Unclassified)	151
	7117	Graduate (Unclassified)	59
		Agricultural Institute	212
			7117

Admission Requirements

To be admitted to a regular session of North Carolina State College, an applicant must be of good moral character and present evidence of acceptable preparation for work at the college level. Every applicant must complete an application form which may be obtained from:

*Director of Admissions
Holladay Hall
North Carolina State College
Raleigh, North Carolina*

The completed form should be returned to the above address. Applications for admission for both the fall and spring semesters will be considered as soon as they are received. The deadline for submitting fall semester applications is September 1; for the spring semester, January 1. A \$10 fee should accompany all applications for admissions. This fee will be refunded to those who are denied admission, or applied to the college fees of those who are cleared for admission and who subsequently register for the semester for which application was made.

Admission to Freshman Standing

To be admitted as a freshman, the applicant should be a graduate of an accredited high school. It is possible for graduates of non-accredited high schools and holders of high school equivalency certificates to have individual consideration for admission. Applicants must take the Scholastic Aptitude Test of the College Entrance Examination Board and have the scores submitted to the Office of Admissions. These scores, together with the high school record, will be considered in determining admissibility. The high school record should be submitted along with the application and must show at least 16 units of completed high school work which should be distributed as follows:

- 4 units of English (see English paragraph below)*
- 2 units of algebra; 1 unit of plane geometry
(see mathematics paragraph below)*
- 1 unit of United States history (see paragraph below)*
- 2 units of natural science*

The remainder of the 16 units will be accepted from other courses, except that not more than one unit will be accepted from activity courses such as physical education, music, band or military science.

English

Students who show lack of proficiency in English as indicated by scores made on the verbal section of the Scholastic Aptitude Test, are advised to take a special non-credit course in English composition before taking the

regular credit courses in English. This remedial work may be taken in summer school or by correspondence before the first regular semester. Such students usually are invited to come to the College for counseling and further testing to help plan their preparatory work. Students with high scores on the verbal section of the Scholastic Aptitude Test are invited to participate in an accelerated English program. Foreign students lacking a satisfactory command of English are required to take courses in English for foreign students until they are sufficiently familiar with the language to proceed with regular courses in English.

Mathematics

The minimum entrance requirements in mathematics for all curricula include two units of basic algebra and one unit of plane geometry.

During the academic year, 1962-63, one-half unit of solid geometry is required for entrance in Agricultural Engineering, the School of Design, the School of Engineering, the School of Physical Sciences and Applied Mathematics and Mathematics Education. Students will be admitted without a deficiency in solid geometry if they have had four years of high school mathematics which included algebra, geometry, and trigonometry and if they have made satisfactory scores on the mathematics section of the Scholastic Aptitude Test. A non-credit course in solid geometry may be taken prior to admission or while in residence through the Extension Division to remove a deficiency in this subject.

Beginning in the fall of 1963 students entering in Agricultural Engineering, Architecture, Product Design, all curricula of the School of Engineering (except Furniture Manufacturing and Management), the School of Physical Sciences and Applied Mathematics, and Mathematics Education are urged to present four units of mathematics which include advanced algebra and trigonometry. Students entering these curricula will not be required to take Mathematics 101, College Algebra and Trigonometry, if they have met this standard. Students entering in these curricula without this four year high school mathematics sequence will be admitted with a mathematics deficiency which may delay their regular progress; such students will be required to take Mathematics 101 during their freshman year or during either summer session preceding their freshman year.

Students entering in Landscape Architecture and Furniture Manufacturing and Management will continue with solid geometry as a requirement. All other curricula will continue to require only the two units in algebra and the unit in plane geometry as entrance requirements in mathematics.

No student will be admitted to any curriculum with deficiencies in the basic two units of algebra and the one unit in plane geometry.

History

Students may make up a deficiency in United States history after enrollment and receive college credit for the course. Foreign students are required to complete a course in United States history before graduation.

Applicants with at least three years of high school work who present satisfactory scores on the regular Scholastic Aptitude Test of the College Entrance Examination Board and a satisfactory rank in class may be admitted, subject to the completion of the course requirements stated above and any other requirements for high school graduation.

Applicants from other states of the United States must meet the preceding requirements and, in addition, must be recommended by the school in which enrollment is sought.

Applicants from foreign countries are not required to take the Scholastic Aptitude Test. The previous school records of foreign students provide the primary basis for their admission. In addition, a foreign student must show proficiency in the English language and submit a statement of financial responsibility.

Admission of Transfer Students

Transfer students with less than 29 semester hours of transfer credit must meet the admissions criteria for entering freshmen as outlined above. To be admitted as a nonfreshman transfer student, the applicant must have acquired at least 29 semester hours of college work (the equivalent of sophomore standing) at an accredited institution with credit for at least one semester each of college algebra and English included. The applications of transfer students from non-accredited institutions will be reviewed by the Admissions Committee.

All applicants for transfer must have an overall "C" average on work taken at other institutions and must be eligible to return to the last institution regularly attended. Students whose records show below "C" average work cannot be admitted unless such admission is approved by the Admissions Committee.

If the prospective transfer student's record shows an overall "C" average or better, it will be evaluated by the dean or director of instruction of the school in which the student wishes to enroll. A \$2.00 transcript evaluation fee, payable to North Carolina State College, is charged for this service. Evaluation by the school will be final. No previously earned credit can be disregarded in evaluating a student's record.

Students eligible to continue at other units of the Consolidated University may transfer even though they do not have an overall "C" average. Students transferring between units of the Consolidated University will receive credit and honor points for all courses taken at the former unit.

All transfer students must have official transcripts sent to the Office of Admissions directly from each other college attended. Failure of the student to submit a transcript from all colleges previously attended may result in his dismissal.

Admission of Unclassified Students

An unclassified student is one who is earning college credit but is not working toward a degree at North Carolina State College. Admission of an unclassified student requires the recommendation of the dean of the school in which the student wishes to enroll. Unclassified students must meet the same admissions requirements as regular students. If, at a later date, an unclassified student wishes to change to regular status, his credits must be evaluated for his major. Credits earned by the student while he is unclassified will be accepted only if he has completed the proper prerequisites. Where credit is allowed, the student will receive the grades he earned in the courses accepted.

Admission of Special Students

Admission to the College in this category requires the recommendation of the dean of the school concerned. The usual college admission requirements may be waived for mature students, but regular rules of scholarship will apply after admission. If a special student wishes to change to regular status at a later date he must meet the same admission requirements as regular students. The special student may not represent the College in any intercollegiate contests or become a member of any fraternity—professional or social.

Admission as an Auditor

Admission as an auditor requires the permission of the instructor and the department head. The participation of auditors in class discussion or in tests or examinations is optional with the instructor. Auditors receive no college credit; they are expected, however, to attend classes regularly.

Readmission of Former North Carolina State College Students

To be readmitted after having withdrawn from the College or having been out of school for one or more semesters, the student must be academically eligible to return and should apply to the Office of Admissions and Registration for readmission at least 30 days prior to the date of desired enrollment.

Admission of Graduate Students

All students working toward advanced degrees are enrolled in the Graduate School. Procedures and policies governing graduate admission are outlined in a special catalog issued by the Graduate School. Any student interested in enrolling for graduate study may obtain a copy of the Graduate School Catalog from:

*Dean of the Graduate School
Gardner Hall
North Carolina State College
Raleigh, North Carolina*

Grades and Scholarship

Grading System

North Carolina State College operates on a credit-point system. Semester credits represent the number of hours completed with a passing grade; quality points are determined by the grade earned.

<i>A</i>	<i>Excellent</i>	<i>4 quality points for each credit hour.</i>
<i>B</i>	<i>Good</i>	<i>3 quality points for each credit hour.</i>
<i>C</i>	<i>Average</i>	<i>2 quality points for each credit hour.</i>
<i>D</i>	<i>Passing</i>	<i>1 quality point for each credit hour.</i>
<i>F, FA, FD</i>	<i>Failing</i>	<i>0 quality point for each credit hour.</i>
<i>AU</i>	<i>Audit</i>	<i>0 credit hours and 0 quality points</i>
<i>AB</i>	<i>Absent from examination</i>	
<i>IN</i>	<i>Incomplete</i>	
<i>S</i>	<i>Satisfactory (for graduate students)</i>	
<i>U</i>	<i>Unsatisfactory (for graduate students)</i>	
<i>P</i>	<i>Passed (for graduate students)</i>	
<i>D*</i>	<i>Failure removed by re-examination (for seniors only)</i>	
<i>H</i>	<i>Indicates work of outstanding quality (for Chapel Hill graduate students)</i>	
<i>P</i>	<i>Indicates clearly satisfactory work (for Chapel Hill graduate students)</i>	
<i>L</i>	<i>Indicates low passing work (for Chapel Hill graduate students)</i>	

Explanations

At the discretion of the teacher, a student who has at least a C average in a course may be given an "Incomplete" grade for work not completed

because of a serious interruption in his work, not caused by the student's own negligence. An incomplete must be made up during the next semester the student is in residence, unless the department involved is not able to allow the make-up. In the latter case, the department will notify the student and the Office of Registration when the incomplete must be made up. Any incomplete not removed during the period specified by the department will automatically become a failure and will be recorded as "Fi".

A grade of "Fa" is recorded for an unexcused absence from the final examination. If an absence from examination is excused, the student must arrange to take the examination during the next semester he is in residence or a grade of "Fa" will be recorded.

A grade of "Fd" is posted if a student has unofficially dropped a course for which he has been scheduled, or if he has officially dropped the course after the final date for dropping courses without failure. A failure may be made up only by repeating the subject. Such a repeat course must be regularly scheduled on the student's roster.

Any student who fails a course within two semesters of graduation, and who fails only one course during that semester, may apply to the Office of Registration for permission to remove that failure by standing a re-examination on the total subject matter of the course. If a senior fails more than one course during the next to the last semester and removes all but one of these deficiencies by repeating the course or courses, and if he has not had another re-examination, he may apply at the end of his last semester in residence for permission to take a re-examination. When such a re-examination is taken to remove an "F", only the re-examination grade will be counted. A senior who has passed a re-examination will have his grade for this course changed from "F" to D*, which is equivalent in quality points to a grade of "D". A fee of \$5.00 will be charged for administering such a re-examination.

Course Repeat Rule

Any undergraduate student will be permitted to substitute the second grade made on any course for the first grade earned on that course, until he has repeated a total of 15 hours of course work. If a course is taken a third time, both the second and third grades will be counted. In computing the cumulative scholastic average for a student who has repeated a course (within the 15-hour and one-repeat-per-course limitations), the hours and quality points earned the first time will be omitted from the computation and only the second earned grade, whether an F or higher, will count.

Scholarship Standards

Semester Rule

Any student carrying 14 or more semester hours must pass at least 6 hours of work during the first semester in which he is registered at State

College, and 8 hours each semester thereafter. A student carrying less than 14 hours must pass at least half of the work rostered in order to continue.

1.5 and 2.0 Average Rule

Students who have earned 40 or more semester hours of college credit are expected to maintain a 2.0 quality point average. Students who have fewer than 40 semester hours are expected to maintain a 1.5 quality point average. Any student who fails to meet these standards will be placed on provisional status. Students will enter provisional status at the start of either the fall or spring semester. Any student on provisional status who fails to meet scholarship standards within two semesters and included summer sessions will be suspended.

A student in the School of Engineering must have earned a minimum grade of "C" on MA 102 to be eligible to roster courses taught by the School of Engineering above the freshman level.

Graduation Requirements

A student is scholastically eligible for graduation when he has satisfied all the specific requirements of his department, his school, and the College, and has earned at least a cumulative 2.0 average.

Students who have satisfactorily completed the requirements for more than one bachelor's degree may, upon the recommendation of their deans and payment of a double diploma fee, be awarded two bachelor's degrees at the same or at different commencement exercises.

To be graduated with high honors, a student must have attained a 3.5 quality point average on all semester hours of work taken at this institution (or at one or both of the other units of the University of North Carolina).

To be graduated with honors, a student must have attained a 3.0 quality point average on all semester hours of work taken at this institution (or at one or both of the other units of the University of North Carolina).

Residence Requirement

A candidate for the bachelor's degree who transfers from some other institution must spend at least one academic year in residence and earn a minimum of 24 semester hours of credit before being eligible for a degree. Residence at either of the other two units of the University of North Carolina satisfies the residence requirement at this institution.

Classification Requirements

Students progress from one class to a higher class after they have completed the required number of hours for the next classification. At the present time students are classified at the beginning of the fall semester and at no other time. The required number of hours for each classification is as follows:

<i>Freshman</i>	<i>1-28 semester hours of earned credit</i>
<i>Sophomore</i>	<i>29-62 semester hours of earned credit</i>
<i>Junior</i>	<i>63-96 semester hours of earned credit</i>
<i>Senior</i>	<i>97 or more semester hours of earned credit</i>
<i>Professional (School of Design)</i>	<i>140 or more semester hours</i>

General Policies

Grades and Residence at Other Units of The University of North Carolina

For courses transferred from the University of North Carolina at Chapel Hill and the Woman's College at Greensboro, the student receives full credit and the same number of quality points he would have received if the same grades had been made on these courses at North Carolina State College. Residence is also interchangeable.

Required Freshman English and Required Physical Education

Each student is expected to schedule the required course in freshman English and the required freshman and sophomore courses in physical education every semester until these courses are passed satisfactorily.

Withdrawals from the College

Students who wish to leave college during a semester or summer session must withdraw officially. There is no penalty if a student withdraws prior to the date specified in the college calendar as the last date for withdrawing without failures. Failures are recorded on all courses for students who withdraw after that date. A student who wishes to withdraw should report to the Counseling Center in Holladay Hall to initiate the official withdrawal process. A student completing a semester or summer session, and not planning to return, need not officially withdraw.

Changes in Curricula

Students may change from one curriculum to another by filing with the Office of Registration (at the time of registration) a curriculum change card signed by the dean or director of instruction concerned. Such changes are effective only at the beginning of a semester or summer session.

Scholastic Loads

A student may not carry more than 21 semester hours or less than 12 semester hours during a regular semester, without securing the written approval of the dean or director of instruction of his school. For a six-week summer session, a student must have the same approval if he carries more than seven semester hours. Veterans or other students receiving federal educational benefits must meet the work load requirements of the appropriate federal agency.

Opportunities for Superior Students

Since it has often been found that gifted students do their best work when confronted with programs adapted to their abilities, North Carolina State College offers challenging opportunities to such individuals through superior student programs in mathematics, physics, chemistry, and English; honors programs for upperclassmen in engineering, physical sciences and applied mathematics, forestry, and agriculture; and a program in undergraduate research participation. The College also allows well-prepared students to seek advanced placement by means of qualifying examinations. A brochure describing these programs may be obtained by writing to the director of admissions.

Residence Status for Tuition Payment

The tuition charge for legal residents of North Carolina is less than for nonresidents. A legal resident of North Carolina is one who has his domicile in this State. It is important that each applicant for admission and each enrolled student know his residence status for tuition payment and understand the regulations governing residence status. The following regulations cover most factual situations:

1. A person 21 years of age or older is not deemed eligible for the lower tuition rate unless he has maintained his legal residence in North Carolina for at least the six months next preceding the date of his first enrollment in an institution of higher education in this State.

2. The legal residence of a person under 21 years of age at the time of his first enrollment in an institution of higher education in this State is that of his parents, surviving parent, or legal guardian. In cases where parents are divorced or legally separated, the legal residence of the father will control unless custody of the minor has been awarded by court order to the mother or to a legal guardian other than a parent. No claim of residence in North Carolina based upon residence of a guardian in North Carolina will be considered if either parent is still living unless the action of the court appointing the guardian antedates the student's first enrollment in a North Carolina institution of higher education by at least 12 months.

3. The residence status of any student is determined as of the time of his first enrollment in an institution of higher education in North Carolina and may not thereafter be changed except: (a) in the case of a non-resident minor student at the time of his first enrollment whose parents have subsequently established legal residence in North Carolina; and (b) in the case of a resident who abandons his legal residence in North Carolina. In either case, the appropriate tuition rate will become effective at the beginning of the semester or term next following the date of change of residence status.

4. The legal residence of a wife follows that of her husband, except that a woman student currently enrolled in this institution as a resident may continue as a resident even though she marry a nonresident.

5. Military personnel attached to military posts or reservations in North Carolina are not considered eligible for the lower tuition rate unless they have maintained a legal residence in the State for at least the six months next preceding the date of first enrollment in an institution of higher education in the State.

6. Aliens lawfully admitted to the United States for permanent residence who have established a legal residence in North Carolina according to Paragraphs number 1, 2, or 4, above, are eligible for the lower tuition rate.

7. Ownership of property in or payment of taxes to the State of North Carolina apart from legal residence will not qualify one for the lower tuition rate.

8. Discretion to adjust individual cases within the spirit of these regulations is lodged in the vice president and finance officer of the University.

Any student or prospective student in doubt concerning his residence status must bear the responsibility for securing a ruling by stating his case in writing to the director of admissions.

Tuition and Fees

Charges for tuition and fees vary according to (1) the student's status as a resident or non-resident of North Carolina; (2) type of student (regular undergraduate, special or unclassified undergraduate, auditor or graduate student); and (3) to a minor degree, the curriculum in which the student is enrolled.

An application for admission must be accompanied by an application fee of \$10. This fee is refunded to students whose applications are denied. It is forfeited by applicants who are accepted but who do not enroll.

Tuition and fees are payable during the registration period. All charges are subject to change without notice, but the charges in effect currently are as follows:

Regular Undergraduate Students

<i>Schools</i>	<i>In-State Students</i>		<i>Out-of-State Students</i>	
	<i>Fall Semester</i>	<i>Spring Semester</i>	<i>Fall Semester</i>	<i>Spring Semester</i>
Agriculture	\$161.50	\$154.50	\$374.00	\$367.00
Design	160.50	154.50	373.00	367.00
Education	161.50	154.50	374.00	367.00
Engineering	160.50	154.50	373.00	367.00
Forestry	170.50	154.50*	383.00	367.00*
General Studies	158.50	152.50	371.00	365.00
Physical Sciences and Applied Mathematics	160.50	154.50	373.00	367.00
Textiles	160.50	154.50	373.00	367.00

* Add \$10.00 if not registered in fall semester.

Late Registration

Registration schedules are set for specific days, and certain definite procedures are outlined. A student has not completed registration until all of the required steps are taken. All students, graduate and undergraduate, who fail to register on dates scheduled must pay a \$5.00 late registration fee.

Undergraduate Students Taking Less Than Seven Hours

Undergraduate students taking one course of not more than four hours during a regular semester will be charged one-fourth tuition, one-fourth academic fees and no non-academic fees. These students will not be entitled to any of the services and privileges provided by the non-academic fees. Undergraduate students taking five or six hours during a regular semester will be charged one-half tuition, one-half academic fees and all non-academic fees. All other undergraduate students will pay full tuition and fees.

Audits

Subject to academic regulations, regularly enrolled graduate or undergraduate students may audit courses by registering for them. The first audit will be disregarded in determination of course load on which tuition and fee payments are based, but any additional audits are to be added to the course load at full credit hour value. Students registered for audits only will pay the rates applicable to special unclassified students.

Unclassified Students

A student registering for course work as an unclassified student but requesting graduate credit will be charged the regular graduate student rate.

Graduate Students

Applicants interested in graduate work may receive a schedule of fees upon application to the Graduate School.

Commencement Fee

A fee of \$9.00, covering cost of diploma and rental of cap and gown, is charged candidates for the baccalaureate degree during the last semester before the degree is awarded.

Deposits

(a) As partial security for library books, laboratory equipment, etc., a general deposit of \$20 must be paid by regularly enrolled undergraduate and graduate students at the time of their first enrollment (see also under "Refunds").

(b) Certain departments are allowed to collect small deposits, in addition to the general deposit referred to above, for such things as lockers, etc. In such instances departmental regulations will apply.

Professional Students in Engineering

Students in the various fifth-year professional curricula will be charged on the same basis as undergraduate students.

Thesis Preparation

Graduate students who have completed course requirements and are in residence for thesis work only will be charged \$15 per semester for tuition, plus all fees. Graduate students not in residence who have completed all requirements for the degree sought, except for the thesis, will be required to register for the term in which final requirements for the degree are to be completed and pay a tuition fee of \$15 and a \$5.00 registration fee.

Degree Only

Graduate students who have completed all requirements for the degree sought are required to register for the term in which the degree will be awarded and pay a tuition fee of \$10.

Room Rent

Rooms in the College dormitories rent for \$85 per person per semester. In addition, the student must include with his remittance a deposit of \$2.00 for his room and mail box keys. This deposit will be refunded when

the keys are returned to the Housing Rental Office. Dormitory room applications are for the period of a school year and the rent is payable in advance prior to the beginning of each semester as announced. When a new student is accepted by the College, he is sent a letter of clearance together with a dormitory room reservation request form. If he wishes to reserve a dormitory room, he should fill out the reservation request and return it with his remittance. Rooms will be assigned as long as space is available, in the order in which payment of rent is received. Individual preferences as to location of room and/or choice of roommate will be complied with as far as possible. All reservations are subject to published dormitory rules and regulations.

Male freshman students are required to live in the College dormitories unless they are married, veterans, or living with parents or relatives. Each of these freshmen must make a written application to the director of student housing for permission to live outside of the dormitories.

Married Student Housing

College-owned apartments for married students rent for the following amounts:

<i>Efficiency apartment</i>	<i>\$43.00 per month</i>
<i>One-bedroom apartment</i>	<i>57.50 per month</i>
<i>Two-bedroom apartment</i>	<i>69.00 per month</i>

Linen Rental Service

Linen Rental Service is available upon request at the rate of \$10 per semester, and includes a weekly issue of two sheets, one pillow case, and three bath towels. Students living in dormitories may submit their application along with remittance at the time of room rent payment. Students living off campus may make application at the Business Office in Holladay Hall or at the College Laundry.

Board

Meals are served cafeteria style, and the cost depends upon the individual student. Average cost is approximately \$550 per year.

Books and Supplies

The cost for books and supplies is variable, depending upon the curriculum in which the student is enrolled. A reasonable estimate is \$100 per year, but students who have to buy drawing supplies and slide rules have an additional original outlay. All books and supplies are paid for in cash as purchased.

Estimated Annual Cost

(Items such as tuition, fees, and room rent in dormitories are fixed costs. Other items are variable with the individual student.)

	<i>First Semester</i>	<i>Second Semester</i>	<i>Year</i>
Tuition (Non-resident students add \$212.50 per semester)	\$ 87.50	\$ 87.50	\$ 175.00
Other college fees (may be slightly higher or lower, depending upon school)	73.00	67.00	140.00
General deposit (paid only upon first enrollment)	20.00	—	20.00
Dormitory room	85.00	85.00	170.00
Linen service (optional)	10.00	10.00	20.00
Board	250.00-300.00	250.00-300.00	500.00-600.00
Books and supplies	50.00-100.00	25.00	75.00-125.00
Other personal expenses and incidentals	100.00-150.00	100.00-150.00	200.00-300.00
Total (N. C. residents)	\$675.50-825.50	\$624.50-724.50	\$1300.00-1550.00
Total (non-residents)	\$888.00-1038.00	\$837.00-937.00	\$1725.00-1975.00

Refunds

Tuition and Fees

A student who withdraws from school on or before the last day for registration will receive a refund of the full amount paid, less a \$5.00 registration fee. On withdrawal later than the period specified, no refund will be made.

Room Rent

Refund of room rent will be made if reservation is cancelled:

a. Prior to the first day of the registration period, the rent paid will be refunded less a \$10 reservation fee.

b. During the registration period, the rent paid will be refunded less a \$10 reservation fee or a charge of \$1.00 per day (whichever amount is greater) from the first day of the registration period (or date of reservation, whichever is later) to date of cancellation.

c. After the last day for registration, no refund will be made for any reason other than withdrawal from college.

Cancellation of reservations must be made in person or in writing to:

*Housing Rental Office
Leazar Hall
North Carolina State College
Raleigh, North Carolina*

Linen Rental

No refunds or credits will be made to a student for those weeks he fails to use the linen rental service. The exception to this case is the student who officially withdraws from college. He will be refunded for the unused service at the rate of fifty cents (.50) per week provided he returns the final issue of linen to the College Laundry.

General Deposit

Miscellaneous charges for laboratory breakage, traffic fines, dormitory and property repair charges, military property charges, physical education equipment and property charges, and all other miscellaneous charges when less than \$15 will be deducted from the general deposit of \$20, as incurred throughout the year. The \$20 general deposit must be rebuilt to the \$20 level by the student at the beginning of the fall semester before the completion of registration or whenever the deposit has been depleted to the \$5.00 level.

The general deposit of \$20 or the remaining balance is refunded when a student has completed the requirements for a degree or has dropped out of school permanently. The student must apply to the Business Office for the refund at which time a correct mailing address must be given. Refund will be made by check after 30 days from the date the application is received.

Refund Committee

In some instances circumstances justify the waiving of rules regarding refunds. An example might be withdrawal from school because of illness. Students have the privilege of appeal to the Refund Committee when they feel that special consideration is merited. Applications for such appeals may be secured from the Division of Student Affairs.

Student Activities and Services

State College makes every effort to provide the student with surroundings which are pleasant and conducive to intellectual growth. Respecting the student as an individual, the College assures him the maximum of personal liberty within the limits necessary for orderly progression of class work. In return, he is expected to pay serious attention to his purpose in attending college and to observe rules of conduct consistent with maturity. Through the various services and activities identified with everyday life on the campus, as well as through the several extracurricular organizations and functions, the student at State College has an excellent opportunity for acquiring experience in group leadership and community living which may serve him well in his professional career.

As the student progresses in his development, especially after his freshman year, he will find many opportunities to increase his growth in citizenship by participating in the activities of his academic class and of the student body in general. Following is a survey of the various activities at State College.

Student Government and Honor System

When a student enters State College, he becomes a member of a self-governing community.

Legislative, executive, and judicial authority, insofar as student affairs are concerned, rest with the Student Government which operates within the framework of over-all college administration. The Student Government members and Judicial Department members are elected in campus-wide elections. The student has a voice in his own government by participating in these elections. Often in general elections he is asked to vote on proposed changes in regulations which affect the student body.

The student also becomes part of the Honor System. He is expected to adhere to its general aims, which are honesty in class work and honor in general conduct.

Clubs and Societies

Through the various honorary, professional, technical, and social organizations at State College, the interested student finds many opportunities to participate in activities that appeal to him and to meet others who have similar interests.

College Honorary

Honorary societies and fraternities at State College are Golden Chain, senior leadership; Blue Key, junior leadership; Thirty and Three, sophomore leadership; Phi Eta Sigma, freshman scholarship; and Phi Kappa Phi, junior, senior, and graduate student scholarship.

Professional and Technical

Each school at State College sponsors or supervises a large number of professional and technical societies and clubs. Students in every area of instruction are encouraged to join with their fellow students in pursuing their common interests. Many of these organizations contribute greatly to the student's professional and social growth.

Social Fraternities

Eighteen national social fraternities have chapters at State College. Each sends two representatives to the Interfraternity Council, which has as its objectives promoting the general interests and welfare of the associated fraternities and insuring cooperation between them in their relations with the faculty, the student body, and the general public.

The social fraternities are Alpha Gamma Rho, Delta Sigma Phi, Farmhouse, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Phi Epsilon Pi, Phi Kappa Tau, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Alpha Mu, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Sigma Pi, Tau Kappa Epsilon, and Theta Chi.

State College has one national social sorority, Sigma Kappa, which recently established a chapter here.

Student Publications

A variety of publications, both general and school-sponsored, are edited and managed by student officers, with faculty members serving as advisers. A student may gain journalistic experience and training in writing, editing, or management by working on these publications.

The three general publications, *The Agromeck*, The Student Broadcasting System, and *The Technician*, are supported in large part by a publication fee which is a part of each student's fees.

The Agromeck

The Agromeck is the college yearbook, providing a record of the classes and of the principal events of the school year. The yearbook recalls in pictures the varied activities of the student body throughout the year, and is published for the entire student body.

The Technician

The Technician is a student newspaper, issued three times a week and delivered to the dormitories and fraternity houses. Students living off-campus pick up their copies of the newspaper from special Technician boxes located at Watauga Hall, the Coliseum, and at the main desk in the College Union. The Technician serves as a forum for student expression as well as a medium for news of particular interest to State College students.

The Student Broadcasting System

Although it is not a publication in the strictest sense of the word, The Student Broadcasting System, a carrier-current station with coverage limited to the campus, serves the same function through a different medium. It offers many opportunities for extra-curricular training in actual broadcasting techniques as well as training in administration and program planning.

The Tower

Each student receives a copy of *The Tower*, the college handbook, which contains detailed information about student regulations, organizations, and activities.

Other Publications

Several of the schools have their own publications which are published under the general supervision of the particular school and deal with material of special interest to students in that school. These publications include *The Pi-ne-tum*, published by the School of Forestry; *The Southern Engineer*, published by the School of Engineering; *The Textile Forum*, published by the School of Textiles; and *The Publications* of the School of Design.

Athletics

In addition to voluntary programs of intramural and intercollegiate sports, State College requires freshmen and sophomores to enroll in credit courses in physical education. Juniors and seniors may take physical education as an elective.

Intramural

The College maintains an extensive program of intramural sports which is administered by the Department of Physical Education. Participation in these sports is purely voluntary and college credit is not given. Competition is divided into three divisions: Dormitory, Fraternity, and Open. Thirteen sports are offered in the dormitory and fraternity divisions, and four sports plus special events in the open division.

Sports offered in the intramural program are correlated with those taught in the required programs of physical education. Instruction in these sports is given in the classes and opportunity for competition is provided in the intramural program. An Intramural Advisory Board, composed of student representatives and one physical education staff member, determines the policies to be administered by the intramural director.

The intramural facilities, both indoor and outdoor, are excellent. The intramural playing fields, adjacent to the gymnasium, provide space for 10 softball or 10 football games to be played simultaneously. Twenty tennis courts are available for tennis and construction of additional courts is being considered.

The gymnasium has 10 four-wall handball courts, six squash courts, and separate rooms for boxing, wrestling, golf, correctives and weightlifting. The main gymnasium floor provides seven basketball courts which may be adjusted to accommodate eight volleyball courts, 20 badminton courts, indoor tennis and various other sports. This space also includes a gymnastic area greater than the size of a regulation basketball court.

The swimming pool, located in an adjoining building, is 25 meters by 25 yards and has two one-meter and one three-meter diving boards.

Intercollegiate

Intercollegiate athletics at State College come under the supervision of a separate department of the College. Policies governing intercollegiate competition are recommended, however, by the Athletics Council which is composed of faculty, students, and alumni. The policies are in full accord with the Atlantic Coast Conference and N. C. A. A. rules of eligibility for intercollegiate contests. Membership of the Atlantic Coast Conference includes—in addition to State College—Duke University, Wake Forest College, the University of North Carolina, the University of Maryland, Clemson College, the University of South Carolina, and the University of Virginia.

The program in intercollegiate athletics consists of the organization and training of "Wolfpack" teams in football, basketball, baseball, track cross-country, wrestling, swimming, tennis, golf, soccer, and rifle competition.

Facilities for intercollegiate athletics at State College include Riddick Stadium, a 20,000-seat stadium for football; William Neal Reynolds Coliseum, a 12,500-seat arena for basketball; football practice fields; tennis courts; a swimming pool of olympic dimensions; a gymnasium; a baseball field, and facilities in the Coliseum for wrestling and other sports.

Music

Since the early days of North Carolina State College, its musical organizations have played an important part in the life of the campus. These groups present concerts, furnish music for official college functions, and perform at athletic events. Rehearsal schedules have been carefully arranged to avoid conflicts with other classes or with study time. The combined membership of these organizations constitutes the largest voluntary student organization on campus.

The Men's Glee Club

The Men's Glee Club performs several concerts each year, both on and off the campus. In addition to these concerts, this group makes appearances on television and radio. The Club makes tours and provides small ensemble music for special occasions.

Bands

The Symphonic Band, the Fanfare Band, the Marching Band, and the ROTC Band make up the four divisions of the North Carolina State Bands. Each band serves a specific purpose in the musical life on the campus. Assignments to the various bands are made according to the interests and ability of the individual student.

The Symphonic and Fanfare Bands are concert organizations. Students who are unable to meet the rigid requirements for the Symphonic Band are eligible to try for the Fanfare Band.

The Marching Band operates primarily during football season and is widely known for its spectacular half-time performances.

The ROTC Band consists of freshman and sophomore ROTC and AFROTC students. Participation in band excuses the student from all ROTC drill on the field.

Additional information concerning musical activities may be obtained by writing or visiting the director of music in Pullen Hall.

Student Centers

Two important centers for the extra-curricular activities of State College students are the E. S. King Religious Center and the Erdahl-Cloyd College Union.

College Union

The Erdahl-Cloyd College Union Building is not only the center for an extensive social and cultural program, but also provides facilities for recreation and relaxation. In addition to a snack bar, dining room, barber shop, and ballroom, there are meeting rooms, a library and lounge area, a gallery area for exhibits, a darkroom, craft shop, music listening room, guest rooms, a games room and a theater. The offices of the College Union and other organizations are located on the second floor.

The purpose of the College Union is to provide a facility and a program which will complement the academic life of the student and offer him an opportunity to further already existing interests and to develop new ones. Many of the programs at the College Union are organized and executed by students. Everyone is encouraged to participate in some aspect of the Union's activities.

Religious Center

In addition to the functions and activities held in the College Union Building, many other activities—especially those of a religious, spiritual, and devotional nature—are held within the E. S. King Religious Center. The Center has an attractive lobby equipped with writing and reading tables and chairs, a television room, and four conference rooms where student and faculty groups may meet. The coordinator of religious affairs and several denominational chaplains have their offices in this building.

The Danforth Chapel, located in the Center, provides a place for religious services and meditation for students of all faiths.

The E. S. King Religious Center plans social events and lectures on various topics related to student life in addition to, or in connection with, its programs of religious emphasis.

D. H. Hill Library

The College's modern and well-equipped D. H. Hill Library has shelves for 400,000 volumes, seats for 900 readers, private studies and conference rooms, and well-lighted ventilated reading rooms. The Library's book stacks provide ample space for the fast-growing book collection. In addition, facilities for photoprinting and microfilming are available, and the building's service and reading areas are used as a working center for both students and faculty.

The book collection, which is primarily scientific and technological, strongly reflects the teaching and research requirements of State College. There is also available a fine and well-selected collection of books and materials on every phase of cultural interest as well as for recreational reading. At the present time the collection exceeds 240,000 volumes. More than 3,300 journals are received currently, and more than 3,000,000 documents are held resulting from the depository status which the College Library holds for publications of the Federal Government.

Books for recreational reading are housed in the lobby of the building. Students may explore this area and check out books. The big well-lighted West Reading Room is an invitation to study. In addition to this room, on the top floor is a special smaller study open to the students who prefer to work in a more secluded place.

For the graduate students there are desks and private lockers in the stacks and adjoining the ground floor stacks, a large room where faculty members and graduate students may work. In addition to these facilities, there are several conference rooms open to any college groups requesting them, and rooms which can be temporarily assigned.

In addition to the D. H. Hill Library, specialized branch libraries are maintained in the Schools of Textiles and Design.

Housing

At State College, the dormitory is considered something more than merely a suitable place for living and studying. A well-organized dormitory program plays an important role in the student's all-around development. Under the program each dormitory is organized much like a club, with officers elected by the residents and paid student counselors.

Each student is encouraged to participate in the athletic, social, and recreational activities of his dormitory and in this way he has an opportunity to meet and make friends with students of varied backgrounds, to use his leisure time pleasantly and profitably, and to grow in personality. Each dormitory elects its representatives to the Interdormitory Council, a student organization which coordinates interdormitory activities and programs. In each of seven major dormitories, faculty couples occupy apartments and act as hosts. They assist the occupants with their problems and provide a pleasant atmosphere in which the parents and friends of the occupants may visit the dormitory.

The College has no dormitory for women students. They must make their own housing arrangements. A list of available off-campus rooms for rent is maintained at the Housing Rental Office in Leazar Hall.

For married students, the College has for rent 300 permanent efficiency, one and two bedroom apartments. Priority for occupancy goes to graduate students first, prior military servicemen eligible for government educational benefits second, and all other married students third.

At the beginning of the 1961-62 academic year, approximately 327 students were housed in off-campus residences maintained by the social fraternities which have chapters at State College. Each chapter is represented in the Interfraternity Council which sponsors athletic events and social functions of particular interest to fraternity members.

Dormitory Counseling

Each of the dormitories at State College has a dormitory counselor who is an upperclassman with the qualifications for, and responsibility of, helping individual students in his dormitory—particularly freshmen—in any way

that he can. Floor counselors and assistant floor counselors, chosen on the same basis, assist the dormitory counselor. Whenever these counselors cannot answer particular questions or give aid in solving special problems, they direct the student to the administrative official who can. Also, in the larger dormitories, faculty couples are in residence to provide the influence and assistance that such mature persons can give.

Food Services

The State College student does not have to travel far for food, whether it is a full meal or a snack.

Leazar Hall

Leazar Hall, the main dining facility, provides four cafeteria lines where the student may secure nutritious food at reasonable prices. Meals are served cafeteria style and the cost depends upon the selection of food. A typical student may spend approximately \$2.00 per day or \$550 a year for meals, although some students may eat at the college cafeteria for as little as \$1.25 per day or \$300 a year.

College Union and Shuttle Inn

The College Union Building offers dining room facilities for groups, and also a snack bar. Shuttle Inn in the Textile Building serves sandwiches and grill items. Shuttle Inn is operated by the Student Supply Store.

Dormitory Snack Bars

In addition, each dormitory area has its own snack bar, also operated by the Student Supply Store system.

Laundry and Dry Cleaning

The college laundry provides on-campus laundry and dry cleaning service on a cash-and-carry basis for both students and staff. The rates are inexpensive.

Linen Rental Plan

This service provides for an initial issue of two sheets, one pillow case, three towels, and a complete change of linen each week during the school year. A student who elects to use this service need not purchase or bring these items with him when he enters school. The service is available to all students at a cost of \$10 per semester. Applications for the linen rental plan are mailed with dormitory room forms, or they may be obtained from the Housing Rental Office.

Barber Service

Two barber shops are provided—one in the E. S. King Religious Center and one in the College Union.

Books and Supplies

Student Supply Store

State College's ultra-modern Student Supply Store, located on Dunn Avenue, houses an excellent book department, general student supplies, engineering equipment, and a fountain-snack bar.

Book Exchange

Alpha Zeta, student honor fraternity, maintains a book exchange in the College Union where students may exchange or sell used books.

Health

State College seeks to safeguard the health of the student in every way possible. The College maintains a 76-bed infirmary which is open 24 hours a day, with 15 staff members. There are college physicians, a supervising nurse, a night supervisor, six general duty nurses, one full-time laboratory and X-ray technician, and four other employees. Among the many valuable features of the infirmary are an up-to-date first aid department and X-ray department.

The college physicians observe regular daily office hours in the infirmary in the mornings and afternoons. In addition, they visit the infirmary more often when necessary. A graduate nurse is on duty day and night. Students have free access to the infirmary at all times.

In case of accident or serious illness of a student, parents or guardians will be notified immediately. No surgical operation will be performed without full consent of parents or guardians, except in cases of extreme emergency.

The medical fee which each student pays provides for infirmary service, general medical treatment, and for the services of nurses. It does not provide for surgical operations, outside hospital care, or the services of dentists or other specialists.

Before the student enters State College he should have a complete, thorough examination by his family physician. Any abnormality should be noted and all remedial defects corrected in order to prevent unnecessary loss of time while the student is in college. If the examination is not made before he enters, the student will be given a physical examination at the College, for which a fee is charged. Blanks for the physical examination may be secured from the Office of Admissions and Registration.

The College offers annually a plan of student accident and health insurance. The insurance is planned to cover the surgical, accident and hospital needs of the student, as a supplement to the services of the infirmary. Each year complete information will be made available to students before the opening of school.

Foreign students are required to enroll in the sickness and accident insurance plan provided through the College or to have similar coverage under other insurance plans or arrangements with their sponsors.

Orientation

Several days before the registration of upperclassmen in the fall semester, new students arrive on the campus for a series of activities planned during Orientation Week. To help freshmen with the transition from high school to college and to help new students become acquainted with the campus and with college regulations, the College arranges during this period a series of meetings and conferences with faculty and student leaders.

Throughout the first semester, there are other activities designed to continue orientation and to supplement orientation courses conducted by the individual schools. In addition, the individual schools provide for regular contact with faculty advisers in order that each student may have the opportunity of discussing matters connected with his adjustment to college life.

Counseling: Student Questions and Problems

The main source of general information for students at State College is the Division of Student Affairs which includes the various administrators handling admissions, registration, records, student activities, student housing, orientation and counseling, and student financial aid.

Academic

Upon enrolling at State College, each student is assigned a faculty adviser, usually a member of the department in which the student is taking his major work. This faculty adviser works with the student in planning his program of studies and is available for other help in solving problems of an academic nature. The deans, directors of instruction, and department heads are also available to the student to help provide information about the different curricula and to assist with long-range curricular or career planning. Teachers of courses in which the student is enrolled are the best sources of help with particular subjects. Members of the teaching staff maintain a schedule of office hours and expect the student to consult them individually whenever special help is needed.

Dormitory Counseling

As described in the section on *Housing*, student dormitory counselors and floor counselors and the hosts and hostesses assigned to the larger dormitories, provide assistance with various questions and problems.

Counseling Center

The Counseling Center has a staff of full-time counselors to help students with problems of vocational and curricular choice, and personal adjustment. The Center is prepared to administer various aptitude and interest tests and maintains a file of occupational information. Referral can be made for students desiring remedial work in speech, reading, and other special areas.

Students may come to the Center on their own initiative or may be referred by teachers, advisers, or other members of the college staff. There is no cost to the student for conferences but a small materials fee is charged when tests are administered.

Placement

Each of the degree-granting schools at State College provides its students with assistance in obtaining employment during summer vacations and upon graduation. In some curricula a period of approved summer work is required for graduation.

Financial Aid

Help in meeting college expenses is available to North Carolina State College students in several forms. Financial aid, other than graduate fellowships and assistantships, is administered by the Student Financial Aid Officer under policies set by the College Committee on Scholarships and Student Aid. Students seeking information or counseling on financial matters, or wishing to apply for assistance, should write or visit the Student Financial Aid Office.

Scholarships, Grants-In-Aid, Loans

A student's single application for financial aid will gain consideration for all available scholarships, grants-in-aid, and long-term loans. In general, awards are approved in amounts proportionate to demonstrated need of students with satisfactory records of achievement and school citizenship. Entering freshmen also must make strong scores on the College Entrance Examination Board Scholastic Aptitude Test.

The main means for providing financial aid to entering freshmen is the annual Talent For Service Scholarship Program. For the most complete consideration, high school seniors should submit application materials by February 1 of the year preceding fall enrollment. Enrolled students are encouraged to make application at the end of one school year for financial aid in the next year. There is, however, no deadline for applications, except in the cases of certain competitive scholarships which are announced.

The College seeks to assign the kind of aid best suited to the needs and qualifications of the applicant, and a recipient may expect a portion of the aid offered him each year to be in the form of a loan. Renewal of finan-

cial aid is based upon the student's making a clearly satisfactory record of achievement and campus citizenship.

State College participates in the National Defense Student Loan Program, under which loans are made that draw no interest until one year after leaving college. Other college loans accrue interest at the rate of 3 per cent from the date of execution of the note. Repayments of long-term loans begin after graduation or withdrawal from college.

Emergency loans are available to meet unforeseen expenses. These loans must be repaid in 30 to 60 days and are not extended beyond the end of a term.

Graduate Fellowships

Graduate Fellowships are funds offered to graduate students to assist in the support of programs of advanced study. Holders of fellowships have no obligations to the College and may devote full time to the prosecution of their graduate programs. Funds for these fellowships are provided by various government agencies, professional groups, and business organizations. Applicants for fellowships should contact the head of the department in which they wish to pursue studies.

Graduate Assistantships

Graduate Assistantships are short-term staff appointments that carry stipends ranging from \$1,200 to \$4,800 depending upon the magnitude of the service obligation and the experience of the appointee. Teaching assistants are customarily appointed annually for the nine-month academic year. Research assistants are often appointed on a calendar year basis and, accordingly, stipends may be 20 per cent larger than those for teaching assistants. Only graduate students in good standing are eligible for appointment to graduate assistantships. The course loads permitted graduate assistants are adjusted in proportion to the service obligation. Graduate assistants giving half-time to their service obligation may register for 60 per cent of a full course load.

Athletic Awards

Athletic Awards are made upon the recommendation of the Athletic Department to athletes who meet the established qualifications for such awards.

Part-time Employment

A Part-time Employment Service is provided to assist students in locating jobs both on and off campus. Students who desire part-time work should call at the Financial Aid Office when they arrive on the campus.





MILITARY TRAINING

Department of Military Science

Professor of Military Science COLONEL L. W. MERRIAM

Assistant Professors of Military Science:

LIEUTENANT COLONEL WILFORD L. WILLEY, LIEUTENANT COLONEL JAMES F. BARRETT, MAJOR MAX A. CRAIG, MAJOR JOSEPH W. JENKINS, MAJOR JAMES E. LAWSON MAJOR ROBERT E. WICKHAM, MAJOR WOODROW O. WILSON, CAPTAIN NORMAN G. ERIKSEN, CAPTAIN CHARLES I. McLAIN, CAPTAIN MAYNARD E. SHIELDS

Department of Air Science

Professor of Air Science COLONEL JAMES D. HOWDER

Assistant Professors of Air Science:

LIEUTENANT COLONEL FRANKLIN D. BLANTON, LIEUTENANT COLONEL EARL R. DICKEY, LIEUTENANT COLONEL MAYNARD C. CUSWORTH, MAJOR GERALD L. WATERMAN, MAJOR ROBERT J. SHELDON, CAPTAIN CHARLES W. ROWAN, CAPTAIN WILLIAM S. CLARKE, JR.

Objectives

The Reserve Officers' Training Corps (ROTC) at State College designates those students enrolled for training in the Department of Military Science or in the Department of Air Science. These departments are integral academic and administrative subdivisions of the institution. The senior Army officer and the senior Air Force officer assigned to the College are designated as professor of military science (PMS) and professor of air science (PAS). These senior officers are responsible to the Secretary of the Army, the Secretary of the Air Force, and the chancellor of the College for conducting their training and academic program in accordance with instructions issued by the respective secretaries and as required by college regulations. Army officers who are assigned to the College as instructors in ROTC are called assistant professors of military science; Air Force officers, as assistant professors of Air Science. Non-commissioned officers of the Army are assigned as assistant instructors and administrative personnel.

Non-commissioned officers of the Air Force are assigned as administrative and supply personnel.

The Army ROTC, in four years of military training, produces junior officers who have the qualities and attributes essential to their progressive and continued development as officers of the United States Army.

The mission of the Air Force ROTC is to develop in selected college students, through a permanent program of instruction at designated civilian educational institutions, those qualities of leadership and other attributes essential to their progressive advancement to positions of increasing responsibility as commissioned officers in the United States Air Force.

Course of Instruction

Programs of instruction for both Army and Air Force ROTC consist of a two-year basic course and a two-year advanced course. The satisfactory completion of the basic course in either the Army or Air Force ROTC is required for all physically fit male freshmen and sophomores unless they are excused by the college administration. (All veterans who were in active service for as long as six months are excused from this requirement, but may enroll in the basic course of Army or Air Force ROTC to qualify for later enrollment in advanced courses.)

The College provides, in cooperation with the Air Force and the Army, a flight instruction program. A limited number of highly qualified cadets from both ROTC units participate in this instruction which includes approximately 35 hours of flying in light aircraft plus ground school. Successful completion of this phase of the ROTC course qualifies the cadet for a Federal Aviation Agency pilot's certificate.

Satisfactory completion of the advanced courses qualifies a student for commissioning as a second lieutenant in the Army or Air Force Reserve upon graduation from the College. A detailed description of all military courses is given under each of the departments in the section of the catalog which lists course descriptions.

Military Science

The satisfactory completion of the first year of the Army ROTC course is a prerequisite for entering the second year. Enrollment in advanced courses is elective on the part of the student. The selection of advanced course students is made from applicants who are physically qualified and who have above average academic and military records. Veterans who have one year or more of service in the Armed Forces are eligible for enrollment in the Army ROTC advanced course upon reaching their junior year, provided they are in good academic standing, physically qualified,

have not reached their 27th birthday, and are selected by the PMS and the Chancellor.

The Army ROTC course includes instruction in American military history, map reading, leadership, military teaching methods, military administration, operations, and logistics. These subjects not only prepare students to be officers in the United States Army, but also awaken in them an appreciation of the obligations of citizenship and secure for them personal benefits resulting from practical application of organization and responsible leadership. An elective subject is chosen from general academic areas in effective communication, science comprehension, general psychology, or political development and political institutions for utilization in the junior and senior years.

Air Science

Enrollment in the Air Force ROTC advanced course is elective on the part of the student. Selection of advanced course students is made from applicants who are physically qualified and who have above average academic and military records. Qualified veterans desiring a commission through the AFROTC will be required to take that portion of the basic course, with their non-veteran contemporaries, which remains before they are classified as academic juniors. All veterans must have completed their academic and military requirements prior to their 28th birthday.

The Air Force ROTC course of study includes instruction in foundations of air power, Air Force officer development, leadership, and air power concepts. The Air Force ROTC curriculum is designed to prepare the student for his obligations of citizenship to his country as an officer in the United States Air Force or as a civilian.

Uniforms and Equipment

Officer-type uniforms for students enrolled in both basic and advanced courses in Army ROTC are provided by the Federal Government. Students enrolled in the basic course in Air Force ROTC are provided Air Force-type uniforms. For students enrolled in advanced courses in either Army or Air Force ROTC, the College is furnished a monetary allowance by the Federal Government for the purchase of uniforms. Army and Air Force equipment for instruction of students is provided by the Federal Government. Both uniforms and equipment are issued to the College, which is responsible for their care.

Credit

Credit is allowed for work at other institutions having an ROTC unit established in accordance with the provisions of the National Defense Act and regulations governing the ROTC. Record of a student's prior training in the ROTC is obtained from the institution concerned.

Financial Aid

Students enrolled in the advanced course are paid a monetary allowance in lieu of subsistence at the daily rate equal to the value of the commuted ration (\$0.90) for a total period not to exceed 595 days during the two years of the course. Students in the basic course receive no monetary allowance.

Organization of the ROTC

Army

The Army ROTC unit at State College consists of an Army brigade and a drum and bugle corps. The Army brigade, commanded by a cadet colonel and staff, consists of a provisional battalion and three battle groups. The cadet colonel and all other cadet officers are selected from students enrolled in the second year advanced course. Cadet first sergeants and sergeants first class are appointed from students enrolled in the first year advanced course. Certain specially selected students in the second year basic course also are appointed as cadet non-commissioned officers. Cadet officers and non-commissioned officers obtain invaluable experience in leadership by being responsible for conducting all drill instruction. They are observed and supervised in this by the officers and non-commissioned officers of the Army assigned to the College.

Air Force

The Air Force ROTC unit consists of an Air Force wing and a drill team. The Air Force ROTC wing, commanded by a cadet colonel, consists of three groups which are composed of four squadrons each. These squadrons are divided into three flights per squadron, each flight consisting of three squads. The wing, group, squadron, and flight commander and their staff are cadet commissioned officers and are selected from cadets enrolled in the advanced course. All other positions are held by cadet non-commissioned officers who are selected from the first year advanced and second year basic cadets. Cadet officers and non-commissioned officers ob-

tain invaluable experience in leadership by being responsible for planning and conducting all drill instruction. They are observed and supervised by the officers and airmen assigned to the College.

Distinguished Military Students

The College is authorized to name outstanding students of the Army ROTC and Air Force ROTC as distinguished military students. These students may, upon graduation, be designated distinguished military graduates and may be selected for commissions in the regular Army and Air Force, provided they so desire.

Selective Service in Relation to the ROTC

Enrollment in the ROTC does not in itself defer a student from induction and service under the Universal Military Training and Service Act. The law provides that "within such numbers as may be prescribed by the Secretary of Defense, any person who (a) has been or may hereafter be selected for enrollment or continuance in the senior division, Reserve Officers' Training Corps, or the Naval Reserve Officers Training Corps; (b) agrees, in writing, to accept a commission, if tendered, and to serve, subject to order of the secretary of the Military Department having jurisdiction over him; and (c) agrees to remain a member of a regular or reserve component until the eighth anniversary of the receipt of a commission in accordance with his obligation under subsection 'd' of section four of this title, shall be deferred from induction under this title after completion or termination of the course of instruction and so long as he continues in a regular or reserve status upon being commissioned, but shall not be exempt from registration."



SCHOOLS AND PROGRAMS OF STUDY

This section of the catalog lists the eight schools of the College and explains the programs of study within the schools.

Each of the College's schools is administered by a dean. The main academic divisions of the College are the Schools of Agriculture, Design, Education, Engineering, General Studies, Forestry, Physical Sciences and Applied Mathematics, and Textiles.

North Carolina State College, the technical branch of the Consolidated University of North Carolina, provides an opportunity for its students to obtain top-level scientific as well as technical training. Also, the students are offered the broad general education which is a necessary prerequisite to specialization.

Throughout the programs of study given in this section, departmental codes, course numbers, and course titles are used. Additional information concerning specific courses may be found in the *Description of Courses* section. The following code is given to assist in locating course descriptions.

Code	Name	Code	Name
AC—Agricultural Communications (see Agriculture)		CS—Crop Science	
AG—Agriculture		DN—Design	
AGC—Agricultural Economics		E—Engineering	
AGE—Agricultural Engineering		EC—Economics	
ANS—Animal Science		*ED—Education (General Courses)	
ANT—Anthropology		EE—Electrical Engineering	
ARC—Architecture		EH—Engineering Honors	
AS—Air Science		EM—Engineering Mechanics	
BO—Botany and Bacteriology		ENG—English	
BS—Biology		ENT—Entomology	
CE—Civil Engineering		FOR—Forestry	
CH—Chemistry		FS—Food Science	
CHE—Chemical Engineering		GN—Genetics	

* Also, Agricultural Education courses, a few Industrial Arts courses, Industrial Education courses, Mathematics and Science Education courses, and Occupational Information and Guidance courses.

Code	Name	Code	Name
HI—History		NE—Nuclear Engineering	
HS—Horticultural Science		PD—Product Design	
IA—Industrial Arts		PE—Physical Education	
IE—Industrial Engineering		PHI—Philosophy	
ISO—International Student Orientation		PO—Poultry Science	
LA—Landscape Architecture		PP—Plant Pathology	
MA—Mathematics		PS—Political Science	
ME—Mechanical Engineering		PSM—Physical Sciences and Applied Mathematics	
MIC—Ceramic Engineering		PSY—Psychology	
MIG—Geological Engineering		PY—Physics	
MIM—Metallurgical Engineering		REL—Religion	
ML—Modern Languages (General Courses)		RPA—Recreation and Park Administration	
MLE—Modern Languages (English for Foreign Students)		RS—Rural Sociology	
MLF—Modern Languages (French)		SOC—Sociology	
MLG—Modern Languages (German)		SS—Social Studies	
MLI—Modern Languages (Italian)		SSC—Soil Science	
MLR—Modern Languages (Russian)		ST—Experimental Statistics	
MLS—Modern Languages (Spanish)		TC—Textile Chemistry	
MS—Military Science		TX—Textile Technology, Knitting Technology, and General Course	
		ZO—Zoology	







School of Agriculture

H. BROOKS JAMES, Dean

EDWARD W. GLAZENER, Director of Instruction

The agriculture of our modern world amounts to more than growing food and fiber. Agriculture includes all of the technical, professional, and business occupations connected with the processing and distribution of farm products.

The men who produce and supply the farmer with his complex needs, the farmer himself, those to whom he sells, the processor of these products, and the retailer are all part of today's agriculture.

All told, they add up to nearly 40 per cent of the 65 million employed people in the United States making agriculture the nation's biggest single industry. There are more than 500 distinct occupations in today's agriculture—jobs that each year need more than twice the number of people trained to fill them.

The new concept of agriculture is defined to include three important groups in our economy. The first is the farmers themselves. The people who are engaged in the production of crops and livestock. The second includes those industries which furnish supplies and services to farmers. The third includes those industries which process, store, handle, and merchandise farm products.

The overall objective of the School of Agriculture is the development of well-rounded, educated citizens capable of assuming important roles in business, science, and technology as they relate to farming and associated industries.

Facilities

A sound teaching and research program is based on taking advantage of the most modern equipment available in each field. North Carolina State College is fortunate to have at its disposal the newest equipment and facilities in many fields.

Laboratories are well equipped with the necessary materials for learning and practicing the basic and applied sciences. Machinery and equipment, in some cases provided by private industry, keep students abreast of the latest technological advances. Extensive plant, animal, and insect collections are available for use in teaching and for research.

The D. H. Hill Library at State College has a large collection of scientific books and periodicals which provides excellent source material for many courses. In addition, students may draw from the specialized periodicals and textbooks located in the department libraries.

State College's 16 outlying research farms provide a practical classroom for many courses, as well as a place where researchers can carry on basic and applied research.

Student Activities

Students in the School of Agriculture have ample opportunities to take part in many broadening extra-curricular activities, both within the school and in the College itself.

Most departments have student organizations which provide professional as well as social experience. Student tours provide an opportunity to see first-hand the application of classroom principles.

In addition, judging teams representing animal industry, horticulture, and poultry compete regionally and nationally providing student members a chance to travel while learning more about their field.

Curricular Offerings and Requirements

The modern concept of agriculture has given State College's oldest school its newest look.

A freshman enrolling in the School of Agriculture now chooses from three curricula—*agricultural business*, *agricultural science*, or *agricultural technology*—devised to more closely parallel the new concept.

After completing the first two years, consisting largely of basic courses in the biological, physical, and social sciences, the student can choose his major from among the 15 departments.

The student's needs for learning "how to make a living" and for learning "how to live" are both given consideration in the three curricula. Not only does each student get the solid background in science so necessary for today's agriculture, he has a chance to develop a program to fit his individual needs and wants.

Although requirements vary in the curricula, students in all three get a solid background in the sciences, plus a variety of electives. All the curricula have requirements in English and modern languages, the social sciences and humanities, and the physical and biological sciences. In addition, electives can be chosen from several specified areas (see curricula listing below), depending on the curriculum. The student also will have departmental requirements and electives in his major field.

In general, requirements are similar no matter which curriculum the student chooses. However, the program in science places more emphasis on the physical and biological sciences, while that in business emphasizes economics and business management, and the course in technology is stronger in the applied science and technology courses. In some cases, a student may take the same major in any of the three curricula, depending on his interest and objectives.

The majors offered in the three curricula are as follows:

Agricultural Business—agricultural economics, animal husbandry, crop science, food science, dairy husbandry, horticultural science, poultry science and soil science.

Agricultural Science—agricultural economics, agricultural engineering (joint program with the School of Engineering), animal husbandry, botany, crop science, food science, dairy husbandry, entomology, horticultural science, poultry science, rural sociology, soil science, wildlife biology, and zoology. Pre-veterinary work also is taken in this curriculum.

Agricultural Technology—agricultural economics, agricultural engineering, animal husbandry, crop science, dairy husbandry, horticultural science, plant protection, poultry science, and soil science.

Degrees

The degree of Bachelor of Science is conferred upon the satisfactory completion of one of the curricula in this school.

The degrees of Master of Science, Master of Agriculture and professional degrees are offered in the various departments of the School of Agriculture after the satisfactory completion of at least one year of graduate study in resident.

The Doctor of Philosophy degree is offered by the following departments: Agricultural Economics, Agricultural Engineering, Animal Science, Crop Science, Botany, Entomology, Food Science, Genetics, Plant Pathology, Soil Science, and Zoology.

Further information may be found in the Graduate School Catalog.

Opportunities

Agriculture is a broad field with fascinating new opportunities. It needs trained persons to process and distribute agricultural products, to give special services to people who actually produce these products, and to do research and teaching that will make our agricultural production and distribution even more efficient.

The eight major fields of agriculture—research, industry, business, education, communications, conservation, services, as well as farming and ranching—need 15,000 college graduates each year in the United States. But at present our colleges are graduating only about 7,000 a year trained for these jobs. This leaves more than two jobs for each graduate.

In North Carolina alone, there is a desperate need for college-trained people to farm their own land, and for well-schooled specialists in the fertilizer, dairy, feed, insecticide, farm implement and distribution industries. These industries put graduates in key positions and call for more than State College can supply.

Some of the opportunities in the eight fields of agriculture are as follows:

Research—production, marketing, engineering, processing, conservation, reclamation, etc.

Industry—machinery and equipment, chemicals, food processing, grain and seed processing, meat and poultry packing, etc.

Business—banking and credit, insurance, farm management, land appraisal, marketing, transportation, etc.

Education—vocational agriculture, agricultural extension, college instruction, governmental agencies, etc.

Communications—writing, reporting, radio, television, newspapers, magazines, advertising, publications, etc.

Conservation—soil, water, range, forest, fish, wildlife, parks, turf, etc.

Services—inspection and regulation, production field service, quality control and grading, agricultural technicians and consultants, etc.

Farming and ranching—general, dairy, swine, beef, sheep, poultry, cotton, forage, grain, fruits, tobacco, etc.

Practically all types of occupations—more than 500 of them—are available to a graduate in agriculture. There are many opportunities in technology, science, and business. The School of Agriculture stands ready to help meet the challenge of the new concept of agriculture with forward-looking curricula.

Freshman Year

(The departments in the School of Agriculture have a common freshman year with the exception of the science program in the Department of Agricultural Engineering. For the agricultural science, agricultural engineering freshman year see Department of Agricultural Engineering.)

Fall Semester	Credits	Spring Semester	Credits
AG 103, Introduction to Agriculture	1	ENG 112, Composition	3
ENG 111, Composition	3	MA 112, Analytic Geometry and Calculus	
MA 111, Algebra and Trigonometry	4	or	
or		MA 102, Analytic Geometry	
MA 101, Algebra and Trigonometry	5	and Calculus	4
HI 261, U. S. in Western Civilization	3	PS 201, American Governmental	
BO 103, General Botany	4	System	3
PE 101, Physical Education	1	ZO 103, General Zoology	4
MS 101, Military Science I		PE 102, Physical Education	1
or		MS 102, Military Science I	
AS 121, Air Science I	1	or	
	17-18	AS 122, Air Science I	1
			16

Agricultural Business Curriculum

Sophomore Year			
Fall Semester	Credits	Spring Semester	Credits
ENG 231, Basic Speaking Skills	3	ML, Modern Language Elective	
CH 101, General Inorganic Chemistry	4	or	
PSY 200, Introduction to Psychology	3	ENG, English Elective	3
RS 301, Sociology of Rural Life	3	AGC 212, Economics of Agriculture	3
EC 201, Economics	3	PY 221, College Physics	5
PE 201, Physical Education	1	Group D Elective	3
MS 201, Military Science II		PE 202, Physical Education	1
or		MS 202, Military Science II	
AS 221, Air Science II	1	or	
	18	AS 222, Air Science II	1
			16

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Group B Electives	6	Group B Electives	6
Group A or C Electives	3	Departmental Requirements	6
Departmental Requirements	6	Free Elective	3
Free Elective	3		
	<hr/> 18		<hr/> 15

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Group B Electives	6	Group B Electives	6
Group A or C Elective	2	Departmental Requirements	7
Departmental Requirements	7	Free Elective	3
Free Elective	3		
	<hr/> 18		<hr/> 16

Agricultural Science Curriculum

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ML, Modern Language Elective or		ML, Modern Language Elective or	
ENG, English Elective	3	ENG, English Elective	3
CH 101, General Inorganic Chemistry or		CH 103, General and Qualitative Chemistry	4
CH 105, General Inorganic Chemistry ..	4	PY 212, General Physics	4
*PY 211, General Physics	4	Group D Elective	3
Group D Elective	3	PE 202, Physical Education	1
PE 201, Physical Education	1	MS 202, Military Science II or	
MS 201, Military Science II or		AS 222, Air Science II	1
AS 221, Air Science II	1		
	<hr/> 16		<hr/> 16

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Group A Elective	5	Group A, B, or C Elective	3
Group D Elective	3	Group D Elective	3
Departmental Requirements	6	Departmental Requirements	7
Free Elective	3	Free Elective	3
	<hr/> 17		<hr/> 16

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Group A Elective	4	Group A Electives	6
Group A, B, or C Elective	3	Group D Elective	3
Departmental Requirements	7	Departmental Requirements	6
Free Elective	3	Free Elective	3
	<hr/> 17		<hr/> 18

* Physics 221 substituted for 211-212 in some agricultural programs.

Agricultural Technology Curriculum**Sophomore Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 231, Basic Speaking Skills	3	SOI 200, Soils	4
CH 101, General Inorganic Chemistry	4	CH 103, General and Qualitative Chemistry	4
PY 221, General Physics	5	AGC 212, Economics of Agriculture	3
EC 201, Economics	3	RS 301, Sociology of Rural Life	3
PE 201, Physical Education	1	PE 202, Physical Education	1
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II	1	AS 222, Air Science II	1
	<hr/> 17		<hr/> 16

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Modern Language Elective or		Group A Elective	3
English Elective	3	Group D Elective	3
Group D Elective	3	Departmental Requirements	7
Departmental Requirements	6	Free Elective	3
Group C Elective	3		<hr/> 16
Free Elective	3		
	<hr/> 18		

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Group A or B Elective	5	Group C Electives	6
Group C Elective	3	Departmental Requirements	7
Departmental Requirements	7	Free Elective	3
Free Elective	3		<hr/> 16
	<hr/> 18		

Credits Required for Graduation

	<i>Agricultural Business</i>	<i>Agricultural Science</i>	<i>Agricultural Technology</i>
Language	12	12	12
Social Science and Humanities (Group D*)	21	21	21
Physical and Biological Sciences	25	28	33
Restricted Electives:			
Group B	24	Group AA** 26	Group A, B 9-11
Group A and C	5		Group C 9-12
Introduction to Agriculture	1	1	1
Departmental Requirements	26	26	27

* Group A includes the physical and biological sciences; Group B, economics and business management;

Group C, applied science and technology; and Group D, social sciences and humanities.

** Six credits may be elected from Groups B and C. Social Science majors may select from Group D.

Free Electives	12	12	12
	<hr/> 126	<hr/> 126	<hr/> 126
Physical Education PE 101, 102, 201, 202	4	4	4
Military Science I and II MS 101, 102, 201, 202 or			
Air Science I and II AS 121, 122, 221, 222	4	4	4

Group Electives

Group A

Physical Sciences

Chemistry

CH 103	General and Qualitative Chemistry
CH 107	General and Qualitative Chemistry
CH 108	General and Qualitative Chemistry Lab
CH 215	Quantitative Analysis
CH 220	General and Organic Chemistry
	All courses at 400 level and above

Mathematics

MA 201	Calculus I
MA 202	Calculus II
MA 211, 212	Analytical Geometry and Calculus
MA 215	Finite Mathematics
	All courses at 300 level and above

Mineral Industries

MIG 120	Physical Geology
MIG 222	Historical Geology
MIG 323	Paleontology
MIG 330	Mineralogy
MIG 442	Petrology

Physics

PY 202 or 212	General Physics
PY 223	Astronomy and Astrophysics
	All courses at 300 level and above

Soil Science

SSC 200	Soils
SSC 302	Soils and Plant Growth
SSC 452	Soil Classification
SSC 511	Soil Physics
SSC 521	Soil Chemistry
SSC 551	Soil Morphology, Genesis and Classification

Statistics

ST 302	Statistical Laboratory
ST 311	Introduction to Statistics
ST 361, 362	Introduction to Statistics for Engineers I, II
	All courses at 500 level

Biological Sciences*Agricultural Engineering*

AGE 303 Energy Conversion for Agricultural Production

*Animal Science*ANS 312 Principles of Livestock Nutrition
ANS 408 Reproduction and Lactation*Bacteriology*

BO 412 General Bacteriology

*Botany*BO 214 Dendrology
BO 403 Systematic Botany
BO 421 Plant Physiology
BO 441 Plant Ecology
All courses at 500 level*Entomology*ENT 301 Introduction to Forest Insects
ENT 312 Economic Entomology
All courses at 500 level*Food Science*FS 502 Food Chemistry
FS 505 Food Microbiology
FS 506 Advanced Food Microbiology*Genetics*GN 301 Genetics in Human Affairs
GN 411 Principles of Genetics
GN 512 Genetics
GN 513 Cytogenetics*Plant Pathology*PP 315 Plant Diseases
PP 318 Diseases of Forest Trees
PP 500 Advanced Plant Pathology
PP 501 Advanced Plant Pathology Lab, Field Crop Diseases
PP 502 Advanced Plant Pathology Lab, Horticulture Crop Diseases*Poultry*PO 401 Poultry Diseases
PO 521 Poultry Nutrition
PO 522 Endocrinology of the Fowl*Zoology*ZO 212 Human Anatomy
ZO 213 Human Physiology
ZO 223 Comparative Anatomy
ZO 301 Animal Physiology
ZO 315 Animal Parasitology
All courses at 500 level except ZO 521, 551 and 552 which appear in Group C.

Other courses in the Physical and Biological Sciences not presently listed may be elected upon approval of the director of instruction.

Group B**Economics and Business Management**

Students in the Agricultural Business curriculum will select one course each in the areas of accounting, macro-economics, marketing, and management. In addition, two courses will be selected in the area of general business and two courses in general economics. It is suggested that students in Agricultural Science and Agricultural Technology choose Group B electives from the first four areas.

- | | | |
|---|---|---|
| 1. <i>Accounting:</i> | EC 312 | Accounting for Engineers* |
| 2. <i>Macro-economics:</i> | EC 302 | National Income and Economic Welfare |
| 3. <i>Marketing:</i> | EC 411 | Marketing Methods |
| | or | |
| | AGC 311 | Organization and Business Management of Marketing Firms |
| 4. <i>Management:</i> | EC 425 | Industrial Management |
| | or | |
| | AGC 303 | Organization and Business Management of Farms |
| 5. <i>General Business:</i> (select two courses) | | |
| EC 315 | Salesmanship | |
| EC 401, 402 | Principles of Accounting** | |
| EC 407 | Business Law I | |
| EC 409 | Introduction to Production Costs | |
| EC 414 | Tax Accounting | |
| EC 420 | Corporation Finance | |
| EC 426 | Personnel Management | |
| EC 431 | Labor Problems | |
| EC 432 | Industrial Relations | |
| EC 525 | Management Policy and Decision Making | |
| AGC 413 | Farm Appraisal and Finance | |
| AGC 523 | Planning Farm and Area Adjustments | |
| 6. <i>General Economics:</i> (select two courses) | | |
| EC 310 | Economics of the Firm | |
| EC 410 | Industry Studies | |
| EC 413 | Competition, Monopoly and Public Policy | |
| EC 440 | Economics of Growth | |
| EC 446 | Economic Forecasting | |
| EC 448 | International Economics | |
| EC 450 | Economic Decision Processes | |
| AGC 521 | Procurement, Processing & Distribution of Agricultural Products | |
| AGC 533 | Agricultural Policy | |
| AGC 551 | Agricultural Production Economics | |

Group C**Applied Science and Technology****Agricultural Communications**

- | | |
|--------|---|
| AC 311 | Agricultural Communications Methods and Media |
|--------|---|

Agricultural Engineering

- | | |
|---------|------------------------------------|
| AGE 201 | Farm Shop Woodwork |
| AGE 202 | Farm Shop Metalwork |
| AGE 211 | Farm Power and Machinery I |
| AGE 321 | Irrigation, Drainage and Terracing |
| AGE 332 | Farm Building and Crop Processing |
| AGE 341 | Farm Electrification and Utilities |

* If a one year sequence in accounting is desired, the student should elect EC 409 from Group 5.

** EC 401 may be substituted for EC 312 if the sequence EC 401, 402 is preferred.

Animal Science

ANS 201	Elements Dairy Science
ANS 202	Fundamentals of Animal Husbandry
ANS 302	Selecting Dairy and Meat Animals
ANS 308	Advanced Selecting Dairy and Meat Animals
ANS 404	Dairy Farm Problems
ANS 407	Advanced Livestock Production
ANS 503	Animal Breeding
ANS 505	Diseases of Farm Animals

Crop Science

CS 211	Field Crops I
CS 311	Field Crops II
CS 312	Pastures and Forage Crops
CS 413	Plant Breeding
CS 414	Weeds and Their Control
CS 511	Tobacco Technology

Entomology

ENT 322	Beekeeping
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Food Science

FS 303	Meat and Meat Products
FS 309	Meat Selection
FS 401	Mktg. Milk and Related Products
FS 404	Poultry Products

Horticultural Science

HS 201	Principles of Horticulture
HS 301	Plant Propagation
HS 342	Landscape Gardening
HS 421	Fruit Production
HS 432	Vegetable Production
HS 441, 442	Floriculture I and II
HS 481	Breeding of Horticulture Plants

Poultry Science

PO 201	Poultry Production
PO 301	Poultry Quality Evaluation
PO 351	Poultry Grading
PO 402	Commercial Poultry Enterprises
PO 520	Poultry Breeding

Soil Science

SSC 341	Soil Fertility and Fertilizers
SSC 461	Soil Conservation and Management

Zoology

ZO 312	Principles of Game Management
ZO 321	Wildlife and Natural Resource Conservation
ZO 521	Fishery Biology
ZO 551, 552	Wildlife Management

Group C Electives in Other Schools*Engineering*

EM 341	Mechanics A (Statics)
EM 342	Mechanics B (Dynamics)
EM 343	Strength of Materials A
IE 332	Motion and Time Study
MIM 321	Metallurgy

Forestry

FOR 311 Principles of Farm Forestry

Psychology

PSY 337 Industrial Psychology I

Other courses in Applied Science and Technology not presently listed may be elected upon approval of the director of instruction.

Group D

Social Science and Humanities

Agricultural Economics

AGC 212 Economics of Agriculture
AGC 512 Economic Analysis of Factor Markets

Economics

EC 201, 202 Economic Principles
EC 301 Production and Prices
EC 310 Economics of the Firm
EC 440 Economics of Growth
EC 442 Evolution of Economic Ideas
EC 446 Economic Forecasting
EC 448 International Economics
EC 501 Intermediate Economic Theory
EC 502 Money, Income and Employment
EC 541 Origins of the United States Economy
EC 550 Mathematical Models in Economics
EC 552 Econometrics
EC 555 Introduction to Linear Programming

History

HI 201 The Ancient World
HI 202 The Medieval World
HI 205 The Modern Western World
HI 225, 226 Modern Europe
HI 251 The United States to 1865
HI 252 The United States since 1865
HI 261 The United States in Western Civilization
All courses at 300 level and above

Political Science

PS 201 The American Governmental System
PS 202 County and Municipal Government
PS 301 Comparative Political Systems
PS 302 Contemporary World Politics
PS 376 Latin American Governments and Politics
All courses at 400 level and above

Philosophy and Religion

PHI 201	Logics
PHI 203	Introduction to Philosophy
PHI 205	Problems and Types of Philosophy
REL 301	Religious Groups & Trends in the U. S.
REL 302	The Bible and Its Background
REL 303	Christian Ethics
PHI 305	Philosophy of Religion
PHI 306	Philosophy of Art
PHI 307	Ethics
PHI 309	Marriage and Family Living
PHI 311	Parent-Child Relationships
PHI 395	Philosophical Analysis
	All courses at 400 level and above

Psychology

PSY 200	Introduction to Psychology
PSY 201	Elementary Experimental Psychology
PSY 302	Psychology of Personality and Adjustment
PSY 304	Educational Psychology
PSY 337	Industrial Psychology I
	All courses at 400 level and above including:
PSY 476	Psychology of Adolescence
PSY 490	Social Psychology
PSY 511	Advanced Social Psychology
PSY 565	Industrial Management Psychology

Rural Sociology

RS 301	Sociology of Rural Life
RS 321	Introduction to Social Research
RS 322	Introduction to Rural Social Work
RS 441	Rural Social Pathology
RS 442	Rural Social Structure

Sociology and Anthropology

ANT 305	People of the World
ANT 251	Physical Anthropology
ANT 252	Cultural Anthropology
SOC 202	Man and Society (General Sociology)
SOC 301	Human Behavior
SOC 302	Public Relations and Modern Society
SOC 303	Current Social Problems
SOC 304	Contemporary Family Life
SOC 305	Race Relations
SOC 306	Criminology
	All courses at 400 level and above

Social Studies

SS 301, 302	Contemporary Civilization
SS 491, 492	Contemporary Issues

Other courses in Social Sciences and Humanities not presently listed may be elected upon approval of the director of instruction.

Department of Agricultural Economics

Professor CHARLES E. BISHOP, *Head of the Department*

TEACHING AND RESEARCH

Professors:

ARTHUR J. COUTU, H. BROOKS JAMES, RICHARD A. KING, JAMES G. MADDOX, WALTER H. PIERCE, GEORGE S. TOLLEY, WILLIAM D. TOUSSAINT

Visiting Professor: ERWIN E. LIEBHAFSKY

Associate Professors:

WILLIAM R. HENRY, JAMES A. SEAGRAVES, T. DUDLEY WALLACE, JAMES C. WILLIAMSON, JR.

Assistant Professors:

DALE M. HOOVER, LOREN A. IHNEN, DUANE F. NEUMAN, R. JAMES PEELER, JR., RICHARD L. SIMMONS

Instructors:

WAYNE E. BOYET, GARNETT L. BRADFORD, ADGER B. CARROLL, BOBBY R. EDDLEMAN, WARREN E. JOHNSTON, JOSEPH C. MATTHEWS, JR., JOHN W. NIXON, GORDON S. SANFORD, T. KELLEY WHITE, JR.

EXTENSION

Associate Professor CHARLES R. PUGH, *In Charge of Farm Management*

Professor:

WILLIAM L. TURNER

Associate Professors:

ROBERT L. JOHNSTONE, CLYDE R. WEATHERS

Assistant Professors:

JAMES G. ALLGOOD, E. WALTON JONES

Instructors:

HUGH L. LINER, FRED A. MANGUM, PAUL S. STONE

Professor GEORGE L. CAPEL, *In Charge of Marketing*

Professor:

CLAYTON P. LIBEAU

Associate Professors:

ROBERT S. BOAL, GUY R. CASSELL, HENRY A. HOMME, T. EVERETT NICHOLS, JR., EDWIN A. PROCTOR

Assistant Professors:

MAURICE E. THIGPEN, RUBY P. UZZLE

Instructor:

ROBERT D. DAHLE

The Department of Agricultural Economics offers programs of study leading to the Bachelor of Science, Master of Agricultural Economics, Master of Science, and Doctor of Philosophy degrees.

Three options are available to undergraduate students majoring in agricultural economics. These options include agricultural business, agricultural science, and agricultural technology. Students are given training in all aspects of organizing and operating agricultural business firms. A sound foundation in basic economic principles in production and marketing is provided in order that graduates will be able to deal with problems associated with the rapid changes in technical and economic conditions.

The general objectives of the department are as follows:

- (1) To train students to make sound decisions in organizing and managing farms and other agricultural businesses.
- (2) To train students in the fundamentals of business organization.
- (3) To provide an understanding of the relation of agriculture to other parts of the economy and how to evaluate agricultural policy and economic changes which affect agriculture.

(4) To train graduate students in advanced economic theory and research techniques.

Opportunities

Training in agricultural economics qualifies a student for a wide range of opportunities. Many graduates of the department are employed in research and educational work by various agencies of the federal and state governments. These agencies include the Agricultural Extension Service, the Agricultural Experiment Station, the State Department of Agriculture, and other agencies of the United States Department of Agriculture.

The growing number of companies processing and manufacturing agricultural products has created an increasing demand for people trained in agricultural economics. Opportunities here include employment by companies handling farm supplies such as feed, fertilizer, and equipment; general marketing and processing firms; agricultural cooperatives; professional farm management agencies, and various credit agencies.

Openings in all of these areas greatly exceed the number of graduates trained to fill them. And as industrial and agricultural development of the region continues, employment opportunities are expected to increase.

Facilities

The department has a modern and well equipped library, including all of the major professional journals and USDA publications. Experiment station publications from other institutions throughout the United States are kept on file. Modern computational and reproduction equipment is available. In addition, the department has access to cooperative use of IBM equipment in the Department of Experimental Statistics, including a 650 digital computer and a Rand 1105 computer. The department is housed in Patterson Hall.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in Agricultural Economics may be earned under the agricultural business and agricultural science curricula in the School of Agriculture. In addition, students must meet all of the basic requirements of the College and the School of Agriculture.

For the freshman year and basic requirements see pages 54 and 55.

Agricultural Business—The requirements for the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	<i>Credits</i>
AGC 311, Organization and Business Management of Marketing Firms	3
AGC 551, Agricultural Production Economics	3
AGC 552, Consumption, Distribution and Prices in Agriculture	3
EC 302, National Income and Economic Welfare	3
EC 312, Accounting for Engineers	
or	
EC 401, Principles of Accounting	3
EC 407, Business Law I	3
Electives	6

Group A and C Courses (6 Credits)

CH 103, General and Qualitative Chemistry	4
Electives	2

Departmental Requirements and Electives (26 Credits)

AGC 303, Organization and Business Management of Farms	3
ST 311, Introduction to Statistics	3
AGC 533, Agricultural Policy	3
AGC 521, Procurement, Processing and Distribution of Agricultural Products	
or	
AGC 523, Planning Farm and Area Adjustments	3
Electives	14

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 Credits)

	<i>Credits</i>
MA 211 and 212, Analytic Geometry and Calculus B, C	
or	
MA 201 and 202, Analytic Geometry and Calculus II and III	6 or 8
Electives	18 or 20

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
AGC 303, Organization and Business Management of Farms	3
AGC 311, Organization and Business Management of Marketing Firms	3
AGC 533, Agricultural Policy	3
AGC 551, Agricultural Production Economics	3
AGC 552, Consumption, Distribution, and Prices in Agriculture	3
ST 311, Introduction to Statistics	3
EC 312, Accounting for Engineers	
or	
EC 401, Principles of Accounting	3
Electives	5

Graduate Study

The Department of Agricultural Economics offers programs of study leading to the Master of Agricultural Economics, the Master of Science, and the Doctor of Philosophy degrees.

Special emphasis is placed on the economics of agricultural production and marketing, analysis of programs and policies affecting agriculture, and statistical techniques which can be used in solving agricultural problems.

Department of Agricultural Engineering

Professor F. J. HASSLER, Head of the Department

TEACHING AND RESEARCH

Professors:

H. D. BOWEN, J. M. FORE, W. E. SPLINTER, JAN VAN SCHILFGAARDE, JOHN W. WEAVER, JR.

Associate Professor:

EZRA L. HOWELL

Assistant Professors:

GEORGE B. BLUM, JR., W. H. JOHNSON, K. A. JORDAN, DAVID A. LINK, C. W. SUGGS

Instructors:

E. O. BEASLEY, J. F. BEEMAN, E. G. HUMPHRIES, EDWARD H. WISER, F. SCOTT WRIGHT

Head Mechanic:

RALPH B. GREENE

EXTENSION

Professor H. M. ELLIS, In Charge

Associate Professors:

J. C. FERGUSON, R. M. RITCHIE, W. C. WARRICK

Assistant Professors:

J. W. GLOVER, R. W. WATKINS

Instructor:

R. E. SNEED

Students in agricultural engineering are educated and trained to deal with problems of agriculture that are engineering in nature. Involved are the application of scientific and engineering principles to the conservation and utilization of water and soil, the development of power and labor-saving devices for all phases of agricultural production, the design of structures and equipment for housing and handling livestock and field products, and the processing and marketing of farm products.

The need for men to carry out the technical aspects such as development and research as well as less technical work, such as sales and service of farm equipment requires the offering of two distinct curricula as described below.

The Department of Agricultural Engineering is housed in the Agricultural Engineering Building.

Opportunities

Men trained in agricultural engineering under the science curriculum are qualified for positions in design, development and research in public institutions and in industry, and for teaching and extension work in institutions of higher education. The curriculum also provides adequate training for postgraduate work leading to advanced degrees.

Men trained in the field of agricultural engineering technology are qualified for positions in sales and service of agricultural equipment such as farm machinery, irrigation systems, etc.; as county agents or farmers; and for farm advisory work with such organizations as electric power companies.

Undergraduate Curriculum

Agricultural Science—This curriculum, offered in conjunction with the School of Engineering, is designed to develop young men capable of engineering leadership in agriculture. Emphasis is placed on basic science

courses such as mathematics, physics, mechanics, biology, soils, and thermodynamics, which provide a sound background for engineering and agricultural technology. Courses in agricultural engineering are directed to those methods of thought and techniques whereby science can be applied with understanding and judgment to engineering situations in agricultural operations. General agriculture courses are provided in order that the student can better understand the agricultural industry with which he deals.

Since agricultural engineering involves two distinct technical fields—agriculture and engineering—this curriculum is a joint responsibility of the two schools and is so administered. Graduates in the program receive the degree of Bachelor of Science in Agricultural Engineering.

Freshman

	Credits
ENG 111, 112, English Composition	6
MA 101, 102, Algebra and Trigonometry; Analytic Geometry and Calculus I	9
AG 103, Introduction to Agriculture	1
CH 101, General Chemistry I	4
AGE 151, 152, Farm Mechanics	4
ME 101, 102, Engineering Graphics I, II	4
MS 101, 102, Military Science I	
or	
AS 121, 122, Air Science I	2
PE 101, 102, Physical Education	2
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	32

Sophomore

	Credits
EM 200, Introduction to Mechanics	3
CH 103, General Chemistry II	4
CE 201, Surveying I	3
AGE 211, Farm Power and Machinery	3
MA 201, 202, Analytic Geometry and Calculus II and III	8
PY 201, 202, General Physics	10
MS 201, 202, Military Science II	
or	
AS 221, 222, Air Science II	2
PE 201, 202, Physical Education	2
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	35

Junior

	Credits
BO 103, General Botany	4
EC 201, Economics	3
EE 320, Elements of Electrical Engineering	4
EM 301, Solid Mechanics I	3
EM 303, Fluid Mechanics I	3
ENG 231, Basic Speaking Skills	3
ME 301, Engineering Thermodynamics I	3
MA 301, Differential Equations	3
SSC 200, Soils	4
English Elective	3
Electives	6
	<hr/>
	39

Senior

	Credits
HI 261, The United States in Western Civilization	3
AGC 212, Economics of Agriculture	
or	
AGC 551, Agricultural Production Economics	3
AGE 371, Soil and Water Conservation Engineering	4
AGE 451, Conditioning Principles for Plant and Animal Systems	2
AGE 452, Senior Seminar	1
AGE 462, Farm Power and Machinery IIA	4
AGE 481, Agricultural Structures as Production Units	4
AGE 491, Rural Electrification	4
AGE 552, Instrumentation for Agricultural Research and Processing	1
PS 201, The American Governmental System	3
RS 301, Sociology of Rural Life	3
Humanities Elective	3
Electives	6
	41

ST 361, *Introduction to Statistics for Engineers*, and PY 407, *Introduction to Modern Physics*, are recommended for electives.

Agricultural Engineering Technology—This curriculum is designed for those who are working on a practical level with farm people. Graduates are equipped to apply to the farm the new technology as developed and revealed by the research engineer. The courses are presented and directed toward the solution of consumer problems with emphasis on the techniques employed. Graduates from this program will receive the degree of Bachelor of Science in Agriculture.

For the freshman year program in agricultural engineering technology see page 54.

The requirements of the agricultural engineering technology curriculum are as follows:

Group A and B Courses (9-11 Credits)

*PY 211, 212, General Physics (8 credits total)	3
Electives	6-8

Group C Courses (9-11 Credits)

Electives	Credits
	9-11

Departmental Requirements and Electives (27 Credits)

AGE 151, 152, Farm Mechanics	4
AGE 211, Farm Power and Machinery	3
AGE 303, Energy Conversion	2
AGE 321, Irrigation, Terracing and Drainage	3
AGE 411, Farm Power and Machinery IIB	3
AGE 332, Farm Buildings and Crop Processing	3
AGE 341, Farm Electrification and Utilities	3
AGE 452, Seminar	1
ME 101, Engineering Graphics I	2
AGE 331, Food Process Engineering	3

*PY 211 and 212 will be taken in place of PY 221 as shown in the Agricultural Technology Curriculum. These 3 additional credits are Group A electives required by the department.

Graduate Study

The Department of Agricultural Engineering offers advanced study leading to the Doctor of Philosophy degree in any one of five fields of specialization: power and machinery, rural structures, soil and water conservation, rural electrification, or agricultural processing.

The Master of Science program in agricultural engineering provides a broad background in science and engineering through advanced study in mathematics and physics.

For those interested primarily in existing technology, a program of study for the Master of Agricultural Engineering degree permits selections from a variety of advanced application courses. This program provides training appropriate for those engaged in the dissemination of information either as extension workers with public institutions or service representatives for industry. It is not intended as preliminary study to the Doctor of Philosophy degree.

Agronomy

See Crop Science and Soil Science

Department of Animal Science

Professor I. D. PORTERFIELD, Head of the Department

TEACHING AND RESEARCH

Professors:

E. R. BARRICK, E. G. BATTE, J. E. LEGATES, H. A. STEWART, G. MATRONE, W. R. MURLEY, F. H. SMITH, S. B. TOVE, L. C. ULBERG, G. H. WISE

Associate Professors:

A. J. CLAWSON, E. U. DILLARD, LEMUEL GOODE, J. G. LEECE, R. D. MOCHRIE, H. A. RAMSEY, W. W. G. SMART, JR., M. B. WISE

Assistant Professors:

H. B. CRAIG, J. P. EVERETT, J. M. LEATHERWOOD, J. J. MCNEILL, D. J. MONCOL, J. L. MOORE, R. M. MYERS, O. W. ROBISON

Instructors:

G. L. ELLIS, I. J. ELLIS, J. H. GREGORY, D. O. MORGAN, J. D. PETTYJOHN, W. L. TUCKER

EXTENSION

Professors:

A. V. ALLEN, T. C. BLALOCK, J. S. BUCHANAN, JACK KELLEY, M. E. SENDER

Associate Professors:

J. D. GEORGE, G. S. PARSONS, J. W. PATTERSON, J. R. WOODARD

Assistant Professors:

F. N. KNOTT, R. L. MCGUIRE, R. R. RICH, D. G. SPRUILL

Undergraduate students in the Department of Animal Science are instructed in the basic principles of subjects relating to various phases of dairy and livestock production. To meet the needs of specialized interests, two majors, animal husbandry and dairy husbandry, are offered in each of the three curricula in the School of Agriculture. A third major, animal nutrition, in the agricultural science curriculum, is in the advanced planning stage. Thus, the purpose of these offerings is to present challenges to and to provide preparation of students from various backgrounds for

constructive and progressive participation in the ever-expanding fields of animal agriculture.

Opportunities

There are many and varied opportunities for students who major in any of the animal industry programs.

Animal Husbandry

Kinds of work for which graduates are qualified include the following: farm operations, livestock management, fieldmen for breed associations and livestock organizations, agricultural extension, education work with business and industries serving agriculture, meat grading, communications (livestock and market news with radio and TV stations), sales work with feed, equipment and pharmaceutical companies, graduate study, research with industry and educational institutions, livestock buying and livestock and farm loans with banks and lending agencies.

Dairy Husbandry

Kinds of work for which graduates are qualified include: agricultural extension and other educational work, feed consulting and sales work, dairy herd management, dairy breed promotion, dairy equipment sales, research and development, marketing dairy cattle and dairy products, dairy field work, dairy cattle nutrition, and dairy cattle breeding.

Undergraduate Curriculum—Animal Husbandry

The degree of Bachelor of Science with a major in animal husbandry may be obtained under any of the three curricula offered by the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	Credits
Electives	24

Group A Courses (6 Credits)

	Credits
CH 351, Introductory Biochemistry	3
ZO 301, Animal Physiology	3

Departmental Requirements and Electives (26 Credits)

	Credits
ANS 202, Fundamentals of Animal Husbandry	4
ANS 303, Meat and Meat Products	3
ANS 312, Principles of Livestock Nutrition	3
ANS 406, Animal Industry Seminar	1
CH 103, General and Qualitative Chemistry	4
BO 312, General Bacteriology	4
GN 411, The Principles of Genetics	3
ANS 407, Advanced Livestock Production	4

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (25 Credits)

	<i>Credits</i>
BO 312, General Bacteriology	4
CH 351, Introductory Biochemistry	3
ZO 301, Animal Physiology	3
GN 411, The Principles of Genetics	3
*Electives	12

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
ANS 202, Fundamentals of Animal Husbandry	4
ANS 303, Meat and Meat Products	3
ANS 312, Principles of Livestock Nutrition	3
ANS 406, Animal Industry Seminar	1
ANS 408, Reproduction and Lactation	4
ANS 503, (GN 503), Genetic Improvement of Livestock	3
ANS 505, Animal Diseases	3
ANS 407, Advanced Livestock Production	4
Elective	1

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (10 Credits)

	<i>Credits</i>
BO 312, General Bacteriology	4
CH 351, Introductory Biochemistry	3
ZO 301, Animal Physiology	3

Group C Courses (11 Credits)

	<i>Credits</i>
Electives	11

Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
ANS 202, Fundamentals of Animal Husbandry	4
ANS 302, Selecting Dairy and Meat Animals	2
ANS 303, Meat and Meat Products	3
ANS 312, Principles of Livestock Nutrition	3
ANS 406, Animal Industry Seminar	1
ANS 503, (GN 503), Genetic Improvement of Livestock	3
CH 103, General and Qualitative Chemistry	4
GN 411, The Principles of Genetics	3
ANS 407, Advanced Livestock Production	4

Undergraduate Curriculum—Dairy Husbandry

The degree of Bachelor of Science with a major in dairy husbandry may be obtained under any of the three curricula offered by the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	<i>Credits</i>
Electives	24

* Six credits may be elected from Groups B and C.

Group A Courses (7 Credits)

	<i>Credits</i>
GN 411, Principles of Genetics _____	3
ZO 301, Animal Physiology _____	4

Departmental Requirements and Electives (25 Credits)

	<i>Credits</i>
ANS 201, Elements of Dairy Science _____	4
ANS 312, Principles of Livestock Nutrition _____	3
BO 312, General Bacteriology _____	4
ANS 404, Dairy Farm Problems _____	3
ANS 406, Animal Industry Seminar _____	1
CH 103, General and Qualitative Chemistry _____	4
CH 351, Introductory Biochemistry _____	3
ANS 408, Reproduction and Lactation _____	3

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 Credits)

	<i>Credits</i>
ZO 301, Animal Physiology _____	4
CH 351, Introductory Biochemistry _____	3
GN 411, Principles of Genetics _____	3
•Electives _____	16

Departmental Requirements and Electives (26 Credits)

ANS 201, Elements of Dairy Science _____	4
ANS 302, Selecting Dairy and Meat Animals _____	2
ANS 312, Principles of Livestock Nutrition _____	3
BO 312, General Bacteriology _____	4
ANS 404, Dairy Farm Problems _____	3
ANS 406, Animal Industry Seminar _____	1
ANS 408, Reproduction and Lactation _____	3
ANS 503, (GN 503), Genetic Improvement of Livestock _____	3
Elective _____	3

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (10-13 Credits)

	<i>Credits</i>
ZO 301, Animal Physiology _____	4
CH 351, Introductory Biochemistry _____	3
GN 411, The Principles of Genetics _____	3
Electives _____	0-3

Group C Courses (9-12 Credits)

	<i>Credits</i>
Electives _____	9-12

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
ANS 201, Elements of Dairy Science _____	4
ANS 302, Selecting Dairy and Meat Animals _____	2
ANS 312, Principles of Livestock Nutrition _____	3
BO 312, General Bacteriology _____	4
ANS 404, Dairy Farm Problems _____	3
ANS 406, Animal Industry Seminar _____	1
ANS 408, Reproduction and Lactation _____	3
ANS 503, (GN 503), Genetic Improvement of Livestock _____	3
Electives _____	3

* Six credits may be elected from Groups B & C.

Graduate Study

The Department of Animal Industry offers the Master of Science and Doctor of Philosophy degrees in animal industry. The degrees of animal industry provide for major programs of work in the fields of animal husbandry, dairy husbandry, animal nutrition, animal diseases, animal physiology, and animal breeding.

Department of Botany and Bacteriology

Professor H. T. SCOFIELD, Head of the Department

TEACHING AND RESEARCH

Professors:

E. A. BALL, J. B. EVANS, L. A. WHITFORD

Associate Professors:

E. O. BEAL, J. W. HARDIN, J. R. TROYER

Assistant Professors:

F. B. ARMSTRONG, A. W. COOPER, G. H. ELKAN, JOSEPH S. KAHN, HEINZ SELTMANN

Research Associate:

W. J. DOBROGOSZ

The course program in the department has the objective of providing undergraduate and graduate instruction in the various specialized phases of basic plant science including microbiology. Undergraduates majoring in the department are usually oriented toward graduate work in this or other fields of science. Courses are supplemented by supervised programs of research for graduate students studying for master's or doctor's degrees. Course work in the department also is designed to provide a basis for study in the applied sciences in agriculture and forestry.

Opportunities

Majors in botany and bacteriology may choose to continue graduate work leading to the Master of Science and Doctor of Philosophy degrees in one of the several specialized fields. Majors specializing in botany are qualified for many technological positions with various government institutions or private industries concerned with agriculture. Majors specializing in bacteriology find employment opportunities in medical and agricultural industry or in the field of public health.

Undergraduate Curriculum—Botany

The Bachelor of Science degree with a major in the agricultural science curriculum from the School of Agriculture can be obtained in botany. For the freshman year and basic requirements see pages 54 and 55. The general requirements of the agricultural science curriculum are as follows:

Group A Courses (25 Credits)

	<i>Credits</i>
CH 103, General and Qualitative Chemistry	4
*Electives (6 credits may be elected from Groups B and C)	21

Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
BO 301, General Morphology	3
BO 403, Systematic Botany	3
BO 421, Plant Physiology	4
BO 441, Plant Ecology	3
GN 411, Principles of Genetics	3
PP 315 or 318, Plant Diseases, Disease of Forest Trees.....	4
BO 412, General Bacteriology	4
Elective	3

Undergraduate Curriculum—Bacteriology

The department does not offer an undergraduate major program in bacteriology, however, programs can be arranged to provide training that is well suited to prepare a student for graduate work in bacteriology or microbiology or to seek employment as a bacteriologist.

Anyone interested in undergraduate work emphasizing bacteriology should see a departmental adviser.

Graduate Study

Botany and bacteriology offer work leading to the Master of Science degree in the special fields of plant physiology, ecology, anatomy, morphology, bacteriology, and systematic botany. Graduate work in preparation for the Doctor of Philosophy degree is offered in the fields of plant physiology, plant ecology, systematic botany, bacteriology and morphology.

Department of Crop Science

Professor P. H. HARVEY, Head of the Department

TEACHING AND RESEARCH

Professors:

D. S. CHAMBLEE, D. U. GERSTEL, W. C. GREGORY, G. L. JONES, K. R. KELLER, G. C. KLINGMAN, R. L. LOVVORN, T. J. MANN, P. A. MILLER, R. P. MOORE, J. C. RICE, J. A. WEYBREW

Associate Professors:

C. A. BRIM, J. W. DUDLEY, D. A. EMERY, H. D. GROSS, L. A. JONES, W. M. LEWIS, F. W. McLAUGHLIN, D. E. MORELAND, L. L. PHILLIPS, LUTHER SHAW, D. L. THOMPSON, D. H. TIMOTHY, R. P. UPCHURCH

Professor Emeritus:

G. K. MIDDLETON

Assistant Professors:

W. A. COPE, W. T. FIKE, W. B. GILBERT, G. R. GWYNN, J. L. HALL, J. A. LEE, J. R. MAUNEY, D. A. MILLER, C. F. MURPHY, E. C. SISLER, D. C. WHITENBERG

Instructor:

F. L. SELMAN

EXTENSION

Professor E. R. COLLINS, In Charge of Agronomy Extension

Professors:

R. R. BENNETT, S. H. DOBSON, A. D. STUART

* No more than 6 hours of Group A electives may be courses in the Department of Botany and Bacteriology.

Associate Professors:

S. N. HAWKS, ASTOR PERRY

Assistant Professors:

C. T. BLAKE, D. M. GOSSETT, A. D. WORSHAM

Instructor:

W. G. TOOMEY

The curriculum in crop science has as its objectives training the student in the fundamental principles of the plant sciences, along with the application of these principles to the problems of crop production.

The importance of agronomic training in North Carolina agriculture is shown by the fact that the State ranks third among the states in cash income from farm crops. Yet the maximum potential production of farm crops has by no means been reached. With continued improvement in varieties, cultural practices and cropping methods, further advances will be made. In carrying out this broad program there is, and will continue to be, a real need in North Carolina for men well trained in plant breeding, crop production and management and related fields.

The Department of Crop Science is housed in Williams Hall.

Opportunities

Graduates in crop science are trained to fill positions as county extension agents; farm operators and managers; salesmen in seed and fertilizer companies and similar commercial concerns; seed analysts; and as leaders in various forms of agricultural development work. The crop science programs also offer training for those students who might want to continue their education with graduate study in preparation for extension, teaching or research positions with state or Federal institutions or private industry.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in crop science can be earned under any of the three curricula in the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	<i>Credits</i>
AGC 303, Organization and Business Management of Farms	3
AGC 311, Organization and Business Management of Marketing Firms	3
EC 407, Business Law I	3
Electives	15

Group A and C Courses (5 Credits)

GN 411, The Principles of Genetics	3
Elective	2

Departmental Requirements and Electives (26 Credits)

CS 211, Field Crops I	3
CS 312, Pastures and Forage Crops	3
CS 414, Weeds and Their Control	3
BO 421, Plant Physiology	4
ENT 312, Economic Entomology	3
PP 315, Plant Diseases	3
SSC 200, Soils	4
SSC 302, Soils and Plant Growth	
or	
SSC 341, Soil Fertility and Fertilizers	3

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (25 Credits)

BO 312, General Bacteriology	4
GN 411, The Principles of Genetics	3
PP 315, Plant Diseases	3
MA 201, Analytic Geometry and Calculus II	4
or	
MA 211, Analytic Geometry and Calculus B	3
*Electives	11 or 12

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
CS 211, Field Crops I	3
CS 312, Pastures and Forage Crops	3
CS 414, Weeds and Their Control	3
BO 421, Plant Physiology	4
ENT 312, Economic Entomology	3
SSC 200, Soils	4
SSC 302, Soils and Plant Growth	
or	
SSC 341, Soil Fertility and Fertilizers	3
Elective	3

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (8-11 Credits)

	<i>Credits</i>
GN 411, The Principles of Genetics	3
PP 315, Plant Diseases	3
Electives	2-5

Group C Courses (9-12 Credits)

Electives	9-12
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Departmental Requirements and Electives (27 Credits)

CS 211, Field Crops I	3
CS 311, Field Crops II	3
CS 312, Pastures and Forage Crops	3
CS 413, Plant Breeding	3
CS 414, Weeds and Their Control	3
BO 421, Plant Physiology	4
ENT 312, Economic Entomology	3
SSC 302, Soils and Plant Growth	
or	
SSC 341, Soil Fertility and Fertilizers	3
Electives	2

* Six credits may be elected from Groups B and C.

The Departments of Crop Science, Entomology, and Plant Pathology offer a joint major in plant protection. See section on plant protection for details.

Graduate Study

The Department of Crop Science offers training leading to the degrees of Master of Science and Doctor of Philosophy in the following fields: plant breeding, crop production, forage crop ecology, and weed control.

Dairy Husbandry

See Animal Science

Department of Entomology

Professor CLYDE F. SMITH, *Head of the Department*

TEACHING AND RESEARCH

Professor Emeritus:

T. B. MITCHELL

Professors:

C. H. BRETT, F. E. GUTHRIE, D. A. YOUNG, JR.

Associate Professors:

W. V. CAMPBELL, M. H. FARRIER, W. J. MISTRIC, R. L. RABB

Assistant Professors:

R. C. AXTELL, W. C. DAUTERMAN, E. HODGSON, H. H. NEUNZIG

Instructors:

M. D. JACKSON, H. B. MOORE, D. A. MOUNT

RESEARCH

Assistant Professors:

R. B. CHALFANT, G. F. TURNIPSEED

EXTENSION

Professor:

G. D. JONES

Assistant Professor:

R. L. ROBERTSON

TEACHING AND EXTENSION

Assistant Professor:

W. A. STEPHEN

The entomology faculty offers instruction at both the undergraduate and graduate levels and provides students in this field the broad fundamental training necessary in this profession. Undergraduate instruction also is designed to provide introductory and terminal courses in insect control technology for students majoring in other areas of agriculture and forestry.

The Department of Entomology is housed in Gardner Hall.

Opportunities

Opportunities for employment of well-trained entomologists are plentiful and varied. Research and teaching opportunities exist in many state institutions. Federal agencies offer many positions in research and regulatory work. Private industry is using more and more entomologists in the

development, production, control, testing and sale of agricultural chemicals. Other opportunities in entomology as consultants in domestic or foreign service as well as in private business and sales are available. One can go into business for himself as a pest control operator or an insecticide formulator.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in entomology is offered under the agricultural science curriculum of the School of Agriculture.

For the freshman year and basic requirements see pages 54 and 55.

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 or 28 Credits)

	Credits
SSC 200, Soils	4
or	or
MIG 120, Geology	3
BO 312, General Bacteriology	4
GN 411, Principles of Genetics	3
CH 351, Introductory Biochemistry, or Equivalent	3
ST 311, Introduction to Statistics	3
BO 421, Plant Physiology	4
or	or
ZO 301, Animal Physiology	3
ZO 205, Invertebrate Zoology	4
*Elective	3

Departmental Requirements and Electives (20 Credits)

ENT 312, Economic Entomology	
or	
ENT 301, General Entomology	3
ENT 511, Systematic Entomology	3
Advised Electives	14

Agricultural Technology—The Departments of Crop Science, Entomology, and Plant Pathology offer a joint major in plant protection. See section on plant protection for details.

Graduate Study

The Master of Science and Doctor of Philosophy degrees are offered in entomology. The work in entomology is well supported by strong Departments in Chemistry, Statistics, and the Plant and Animal Sciences.

* May be taken from Groups B and C.

Department of Food Science

Professor W. M. ROBERTS, Head of the Department

TEACHING AND RESEARCH

Professors:

L. W. AURAND, T. N. BLUMER, J. L. ETCHHELLS, W. M. HOOVER, I. D. JONES, M. L. SPECK

Associate Professors:

T. A. BELL, D. FROMM, F. G. WARREN

Assistant Professors:

H. B. CRAIG, M. E. GREGORY, V. A. JONES

Instructor:

C. W. DILL

EXTENSION

Professor:

J. A. CHRISTIAN

Associate Professor:

F. B. THOMAS

Instructor:

J. F. WILES

The Department of Food Science has the objectives of providing undergraduate and graduate programs for the application and coordination of basic training in the physical and biological sciences, economics and engineering to the development, processing, packaging, quality control, distribution and utilization of foods.

The department maintains modern and fully-equipped laboratories for teaching and research programs in dairy, fruit, meat, poultry, seafood, and vegetable products.

The department head and several staff members of the Department of Food Science are housed in Polk Hall. Other staff members and teaching and research facilities are housed in Kilgore and Scott Halls.

Opportunities

The increasing consumer demands for greater varieties and quantities of highly nutritious and convenience foods of uniformly high quality create many and varied career opportunities in the food and allied industries for qualified personnel.

Specific job opportunities in the food industries are procurement, processing, management, quality control, research and development, distribution, sales and merchandising. Some of the job opportunities in allied industries include sales and service representatives of companies manufacturing equipment and supplies for the food industries, consulting activities and trade association promotional and educational services.

Food scientists hold educational and regulatory positions in extension service, inspection, grading, research and development and quality control of foods with various State and Federal governmental agencies. Food scientists are in demand for teaching and research positions with colleges and universities.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in food science and processing can be earned under any of the three curricula in the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the Agricultural Business curriculum are as follows:

Group A Courses (8 Credits)

	<i>Credits</i>
BO 412, General Bacteriology	4
CH 103, General Chemistry II	4

Group B Courses (24 Credits)

Electives	24
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Departmental Requirements and Electives (23 Credits)

FS 301, Food Composition	3
FS 331, Food Engineering	3
FS 505, Food Microbiology	3
FS 511, Food Science Seminar	1
Electives	13

Agricultural Science—The requirements of the Agricultural Science curriculum are as follows:

Group A Courses (25 Credits)

	<i>Credits</i>
BO 412, General Bacteriology	4
CH 221, Organic Chemistry I	4
CH 215, Quantitative Analysis	4
CH 351, Introductory Biochemistry	3
Electives	10

Departmental Requirements and Electives (26 Credits)

FS 331, Food Engineering	3
FS 502, Food Chemistry	3
FS 505, Food Microbiology	3
FS 511, Food Science Seminar	1
Electives	16

Agricultural Technology—The requirements of the Agricultural Technology curriculum are as follows:

Group A Courses (12 Credits)

BO 312, General Bacteriology	4
CH 221, Organic Chemistry I	4
CH 215, Quantitative Analysis	4

Group C Courses (9 Credits)

Electives	9
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Departmental Requirements and Electives (26 Credits)

CH 351, Introductory Biochemistry	3
FS 331, Food Engineering	3
FS 502, Food Chemistry	3
FS 505, Microbiology	3
FS 511, Food Science Seminar	1
Electives	13

Graduate Study

The Department of Food Science offers graduate programs of study leading to the Master of Science and Doctor of Philosophy degrees. Corollary instruction is provided in the biological and physical sciences. Areas of study and research include: (1) food chemistry; (2) food microbiology, and (3) food process and product development. These areas comprise all foods including dairy, fruit, meat, poultry, seafood, and vegetable products.

Department of Genetics

Professor H. F. ROBINSON, Head of the Department

TEACHING AND RESEARCH

Professors:

C. H. BOSTIAN, D. S. GROSCH, W. D. HANSON, BEN W. SMITH, S. G. STEPHENS

Associate Professors:

KEN-ICHI KOJIMA, D. F. MATZINGER, R. H. MOLL

Assistant Professors:

F. B. ARMSTRONG, L. E. METTLER

Associate Geneticist:

M. PFLUGE GREGORY

Research Assistant Professor:

WILFRED SHUTZ

Cooperating with the following associate members of the faculty:

Animal Science:

D. U. DILLARD, J. E. LEGATES, O. W. ROBISON, H. A. STEWART

Botany:

E. O. BEAL, J. W. HARDIN

Crop Science:

P. H. HARVEY, C. A. BRIM, W. A. COPE, J. W. DUDLEY, D. A. EMERY, D. U. GERSTEL, W. C. GREGORY, G. L. JONES, K. R. KELLER, J. A. LEE, W. M. LEWIS, T. J. MANN, P. A. MILLER, L. L. PHILLIPS, D. L. THOMPSON, D. H. TIMOTHY

Horticultural Science:

F. D. COCHRAN, G. J. GALLETTA, F. L. HAYNES, W. R. HENDERSON, D. T. POPE

Plant Pathology:

J. L. APPLE, RICHARD GWYN, T. T. HEBERT, E. L. MOORE, R. R. NELSON, N. N. WINSTEAD

Poultry Science:

E. W. GLAZENER, W. L. BLOW, G. A. MARTIN

Forestry:

T. O. PERRY, B. J. ZOBEL

Statistics:

C. CLARK COCKERHAM, J. O. RAWLINGS

The genetics faculty offers instruction at advanced undergraduate and graduate levels. The undergraduate courses are designed to support the other departments of the institution, giving students a background in the science of genetics. The graduate program is designed to train scientists for research and teaching careers in basic genetics and in its applications in plant and animal breeding.

The Department of Genetics is housed in Gardner Hall.

Undergraduate Curriculum

The department does not have a program leading to a Bachelor of Science degree.

Graduate Study

Graduate study is carried out under the direction of the members of the genetics faculty and enables the student to qualify for the Master of Science or the Doctor of Philosophy degree. A candidate for the master's degree must acquire a thorough understanding of genetics and its relation to other biological disciplines and must present a thesis based upon his own research. In addition to a comprehensive knowledge of his field, a candidate for the doctorate must demonstrate his capacity for independent investigation and scholarship in genetics.

The basic aspects of quantitative genetics, cytogenetics, physiological genetics and mutation genetics as related to past and future evolution of organisms is the central theme of the training program and research. Programs of research in biochemical genetics utilize microorganisms in the basic studies of genetic phenomena and gene action. The varied but coordinated interests of the genetics faculty with their research programs offer a variety of opportunities for graduate student training that is found at few other institutions. Experimental studies utilize organisms ranging from microbes, mice and drosophila to trees and economic farm animals.

Department of Horticultural Science

Professor FRED D. COCHRAN, Head of the Department

TEACHING AND RESEARCH

Professors:

M. E. GARDNER, F. L. HAYNES, JR., J. M. JENKINS, JR., D. T. POPE, G. O. RANDALL

Associate Professors:

W. E. BALLINGER, L. K. KUSHMAN, C. L. MCCOMBS, C. H. MILLER

Assistant Professors:

T. F. CANNON, F. E. CORRELL, A. S. FISH, G. J. GALLETTA, W. R. HENDERSON, T. R. KONSLEER, R. A. LARSON, D. C. ZEIGER

Instructor:

V. H. UNDERWOOD

EXTENSION

Professor J. H. HARRIS, In Charge

Professors:

A. A. BANADYGA, H. M. COVINGTON, M. H. KOLBE

Associate Professor:

B. L. JAMES

The undergraduate programs in horticultural science offer broad training in the physical and biological sciences and business, as well as a sound cultural background, to prepare students for graduate study or for diverse professional services in the fruit and vegetable crops field, in floriculture, and in nursery management and landscape horticulture.

The varied climatic conditions in North Carolina make possible the production of a wide variety of horticultural crops commercially, as well as in parks and gardens. While these crops now represent an important segment of agriculture in North Carolina, further expansion will be realized with the development of adapted varieties, mechanization and intensification of cultural practices, improvement of handling and marketing methods, and development of the food processing industry.

Opportunities

Graduates in horticulture will find numerous opportunities in a wide variety of positions in production, processing, sales, and service. Among these are county extension agents; landscaping and landscape contracting; farm operators; orchard, nursery, greenhouse and flower shop managers; research, production, and promotional specialists with commercial seed, floral, fertilizer, chemical, and food companies; inspectors and quality control technologists; USDA specialists; and as leaders in other phases of agricultural and industrial developments. In addition, the student may prepare himself for one of the many opportunities for graduate study.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in horticultural science can be earned in either of the three curricula . . . business, science, or technology . . . offered by the School of Agriculture. Under these curricula, specialized training is offered for horticultural science majors in fruit and vegetable crops, and in floriculture, nursery management, and landscape horticulture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	Credits
Electives	24

Group A and C Courses (6 Credits)

ENT 312, Economic Entomology	3
PP 315, Plant Diseases	3

Departmental Requirements and Electives (26 Credits)

SSC 200, Soils	4
<i>For majors in Fruit and Vegetable Crops</i>	
HS 421, Fruit Production	3
HS 432, Vegetable Production	3
HS 562, Post-Harvest Physiology	3
Electives	13

For majors in Floriculture, Nursery Management and Landscape Horticulture

	Credits
HS 211, 212, Ornamental Plants	6
HS 301, Plant Propagation	3
HS 351, 441, 442, Greenhouse Management, Floriculture I and II	
or	
HS 342, 411, 471, Landscape Gardening, Nursery Management, Arboriculture	9
Electives	4

Agricultural Science—The requirements of the agricultural science curriculum are as follows for specialization in fruit and vegetable crops and ornamental crops:

Group A Courses (26 Credits)

	<i>Credits</i>
BO 312, General Bacteriology	4
BO 421, Plant Physiology	4
CH 103, General and Qualitative Chemistry	4
GN 411, Principles of Genetics	3
SSC 200, Soils	4
Electives	7

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
ENT 312, Economic Entomology	3
PP 315, Plant Diseases	3

For majors in Fruit and Vegetable Crops

	<i>Credits</i>
HS 421, Fruit Production	3
HS 432, Vegetable Production	3
HS 552, Growth of Horticultural Plants	3
HS 562, Post-Harvest Physiology	3
Electives	8

For majors in Floriculture, Nursery Management, and Landscape Horticulture

	<i>Credits</i>
HS 211, 212, Ornamental Plants	6
HS 441, 442, Floriculture I and II	6
or	
HS 411, 471, Nursery Management; Arboriculture	6
Electives	8

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (10 Credits)

	<i>Credits</i>
BO 421, Plant Physiology	4
GN 411, Genetics	3
PP 315, Plant Diseases	3

Group C Courses (11 Credits)

	<i>Credits</i>
SSC 341, Soil Fertility and Fertilizers	3
HS 481, Breeding of Horticultural Plants	3
Electives	5

Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
ENT 312, Economic Entomology	3
Electives	6

For Majors in Fruit and Vegetable Crops

	<i>Credits</i>
AGC 364, Marketing of Fruits and Vegetables	3
HS 421, Fruit Production	3
HS 432, Vegetable Production	3
HS 552, Growth of Horticultural Plants	3
HS 562, Post-Harvest Physiology	3
Electives	3

For majors in Floriculture, Nursery Management, and Landscape Horticulture

	Credits
HS 211, 212, Ornamental Plants	6
HS 301, Plant Propagation	3
HS 351, 441, 442, Greenhouse Management; Floriculture I and II.....	3
or	
HS 342, 411, 471, Landscape Gardening, Nursery Management, Arboriculture	9

Graduate Study

The Department of Horticultural Science offers the Master of Science degree and the professional degree, Master of Horticulture.

The professional degree is designed for those interested in application of current knowledge, while the Master of Science degree places emphasis on research and provides a basis for later study on the Doctor of Philosophy degree.

Department of Plant Pathology

Professor D. E. ELLIS, Head of the Department

TEACHING AND RESEARCH

Professors:

ROBERT AYCOCK, C. N. CLAYTON, F. A. HAASIS, T. T. HEBERT, A. KELMAN, E. L. MOORE,
L. W. NIELSEN, C. J. NUSBAUM, N. N. WINSTEAD

Associate Professors:

J. L. APPLE, W. E. COOPER, D. M. KLINE, G. B. LUCAS, R. R. NELSON, L. H. PERSON, N. T.
POWELL, J. P. ROSS, J. N. SASSER, R. T. SHERWOOD, HEDWIG TRIANTAPHYLLOU

Assistant Professors:

C. S. HODGES, D. L. STRIDER

EXTENSION

Professor HOWARD R. GARRISS, In Charge

Professors:

FURNEY A. TODD, J. C. WELLS

Undergraduate instruction in plant pathology is designed to provide introductory and advanced courses in the nature and control of plant diseases to students majoring in crop science, horticultural science, plant protection, agricultural education, and forestry, and to provide students with the fundamental training necessary for graduate study in plant pathology.

Opportunities

Many opportunities for employment in research, extension and teaching are available to men with advanced degrees in the field of plant pathology. Openings are available for qualified men in research in the USDA, state experiment stations, and in industry. The rapid development of agricultural chemicals and other methods for disease control offers numerous opportunities. See plant protection curriculum.

Undergraduate Curriculum

The Plant Pathology Department cooperates in the training of plant protection majors (see below), but does not offer a major in plant pathology at the undergraduate level.

Graduate Study

The Department of Plant Pathology offers graduate training in all phases of plant pathology leading to the degrees of Master of Science and Doctor of Philosophy.

PLANT PROTECTION MAJOR

The major in plant protection is a joint major in the Departments of Entomology, Crop Science, and Plant Pathology.

Students in plant protection will be trained in the application of chemical and biological principles for the control of plant diseases, insects, and weeds. Crop losses from insects, weeds, and diseases for the past several years have been estimated in excess of 10 billion dollars annually in the United States. A knowledge of the organisms to be controlled, the products to be used and the crops to be grown is basic to any control or regulatory program.

Opportunities

Opportunities in plant protection basically involve improving farm efficiency to meet our ever-growing need for food and fiber. About 340 chemical companies are concerned with manufacturing and formulating products for pest control. Technically trained men are needed for sales development and promotion of agricultural chemicals. Graduates are also trained to fill positions as county extension agents or as state and Federal regulatory agents. This major is primarily intended for the Bachelor of Science degree. However, qualified students can go on to graduate school from this curriculum.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in plant protection is offered under the agricultural technology curriculum of the School of Agriculture.

For the freshman year and basic requirements see pages 54 and 56.

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (9-12 Credits)

	Credits
CH 425, Organic Chemistry	3
CH 426, Organic Chemistry	
or	
CH 451, Introductory Biochemistry	3
GN 411, The Principles of Genetics	3
Electives	0-3

Group C Courses (9-12 Credits)

CS 211, Field Crops I _____	3
HS 201, Principles of Horticulture _____	3
Electives _____	3-6

Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
BO 421, Plant Physiology _____	4
BO 312, General Bacteriology _____	4
ENT 312, Economic Entomology _____	3
Entomology Elective _____	3
PP 315, Plant Diseases _____	3
Plant Pathology Elective _____	3
CS 414, Weeds and Their Control _____	3
Electives _____	4

Department of Poultry Science

Professor H. W. GARREN, Head of the Department

TEACHING AND RESEARCH

Professors:

C. W. BARBER, F. R. CRAIG, E. W. GLAZENER, C. H. HILL, M. R. KARE

Associate Professors:

T. T. BROWN, W. L. BLOW, J. W. KELLY

Assistant Professors:

E. E. BERNARD, F. W. COOK, W. E. DONALDSON, G. A. MARTIN

EXTENSION

Professor C. F. PARRISH, In Charge

Professor:

J. R. HARRIS

Associate Professors:

W. G. ANDREWS, H. L. BUMGARDNER, W. C. MILLS, JR., T. B. MORRIS

The Department of Poultry Science provides training in the principles of poultry husbandry and in such related scientific fields as nutrition, genetics and physiology.

Through teaching, research, and extension the department serves students, poultrymen, and allied industries. The production of poultry has expanded rapidly in recent years to become one of the most important commodities in North Carolina.

The Department of Poultry Science is located in Scott Hall.

Opportunities

The expanding poultry industry in North Carolina and elsewhere has created more specialized positions than can be filled with the available poultry graduates. Job opportunities are varied, enabling the student to select the type of position having the greatest appeal to him. Graduates hold positions as managers and field representatives for feed manufacturers, processors, hatcheries, equipment companies, biological supply houses, banks, and other allied industries. They also work in communications and public relations and as teaching, extension and research specialists. A number of graduates have established their own successful poultry businesses.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in poultry science can be obtained in any of the three curricula offered by the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group A and C Courses (8 Credits)

	<i>Credits</i>
CH 103, General Chemistry II	4
CH 220, Introductory Organic Chemistry	4

Group B Courses (24 Credits)

Electives	24
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Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
PO 201, Poultry Production	4
PO 301, Poultry Quality Evaluations	2
PO 401, Poultry Diseases	4
PO 402, Commercial Poultry Enterprises	4
PO 403, Poultry Seminar	1+1
PO 404, Poultry Products	3
PO 521, Poultry Nutrition	3
ZO 301, Animal Physiology	4

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 Credits)

	<i>Credits</i>
BO 312, General Bacteriology	4
CH 221, Organic Chemistry	4
GN 411, The Principles of Genetics	3
ZO 301, Animal Physiology	4
*Electives	11

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
PO 201, Poultry Production	4
PO 401, Poultry Diseases	4
PO 403, Poultry Seminar	1+1
PO 404, Poultry Products	3
PO 520, Poultry Breeding	3
PO 521, Poultry Nutrition	3
PO 522, Endocrinology of the Fowl	3
ZO 561, Animal Embryology	4

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (15 Credits)

	<i>Credits</i>
CH 220, Introductory Organic Chemistry	
or	
CH 221, Organic Chemistry	4
ZO 301, Animal Physiology	4
GN 411, The Principles of Genetics	3
BO 312, General Bacteriology	4

* Six credits may be elected from Groups B and C.

Group C Courses (10 Credits)

Electives	Credits
_____	10

Departmental Requirements and Electives (25 Credits)

PO 201, Poultry Production	4
PO 301, Poultry Quality Evaluations	2
PO 401, Poultry Diseases	4
PO 402, Commercial Poultry Enterprises	4
PO 403, Poultry Seminar	1+1
PO 404, Poultry Products	3
PO 520, Poultry Breeding	3
PO 521, Poultry Nutrition	3

Graduate Study

An extensive research program is found in the Department of Poultry Science. Graduate training is available in nutrition, physiology, and genetics. If the student desires, a research problem can be developed in one of these areas with disease as an additional consideration. This department houses one of the foremost laboratories in the country devoted to the nutritional aspects of disease resistance and susceptibility. In the physiology area is found the leading laboratory in this country for studying the mechanism of taste in domestic animals. The genetics area enjoys a national reputation for its outstanding contributions to the science of poultry genetics. Graduate study can be developed in either physiological or population genetics.

PRE-VETERINARY

A pre-veterinary curriculum is offered as part of a working agreement with two Southern veterinary colleges. After the completion of the prescribed work, eight North Carolina students are selected each year to attend the University of Georgia and six to attend the Veterinary College at Oklahoma State University at in-state rather than out-of-state tuition rates.

The first year's work (up to 42 credits) at either Georgia or Oklahoma may be transferred back to North Carolina State College and counted toward graduation requirements for a Bachelor of Science degree from State College in zoology, animal industry, or poultry science if three years were spent in pre-veterinary curriculum.

Curriculum

The pre-veterinary program is offered under the agricultural science curriculum of the School of Agriculture.

Agricultural Science—The courses listed below are minimum requirements for all students applying for entrance to veterinary school under the Southern Regional Education Board contract. Only these students who complete the required courses successfully (grade C or better on each) will be considered eligible to apply. An over-all 2.50 scholastic average or better is mandatory for application to Oklahoma State University.

Languages (9 Credits)

	<i>Credits</i>
ENG 111, 112, English Composition _____	6
English Elective _____	3

Social Sciences and Humanities (6 Credits)

HI 261, The U. S. in Western Civilization _____	3
PS 201, American Government System _____	3

Physical and Biological Sciences (41 to 44 Credits)

MA 111, 112, Algebra and Trigonometry; Analytic Geometry and Calculus A _____	8
CH 101, 103, General Inorganic Chemistry; General and Qualitative Chemistry _____	8
CH 221, 223, Organic Chemistry I and II _____	8
PY 211, 212, General Physics _____	8
or	or
PY 221, College Physics _____	5
BO 103, General Botany _____	4
ZO 103, General Zoology _____	4
ZO 223, Comparative Anatomy _____	4

Group C Courses (12 Credits)

ANS 201, Elements of Dairy Science _____	4
ANS 202, Fundamentals of Animal Husbandry _____	4
PO 201, Poultry Production _____	4

Department of Rural Sociology

Professor SELZ C. MAYO, Head of the Department

TEACHING AND RESEARCH

Reynolds Professor:

C. HORACE HAMILTON

Associate Professor:

GLENN C. McCANN

Assistant Professor:

JAMES N. YOUNG

EXTENSION

Professor JOHN W. CRAWFORD, In Charge of Community Development

Associate Professor:

C. PAUL MARSH

Assistant Professors:

THOMAS N. HOBGOOD, ROBERT W. LONG

Instructors:

JOHN N. COLLINS, JANE U. NORWOOD

The principal aim of this department is to teach students the principles and techniques for understanding human group behavior. More specifically the department seeks: (1) to train students to become leaders in organizing rural groups and communities and in administering their programs; (2) to qualify exceptional students on the undergraduate and graduate levels for rural sociological research, teaching and extension work; (3) to solve problems in human group relations through scientific research; and (4) to extend research results to the people of the State.

The Department of Rural Sociology is housed in the 1911 Building.

Opportunities

Graduates of this department may obtain employment as community organization specialists, county agents, social welfare workers, social statisticians, administrators and managers of both public and private social agencies, college teachers, research workers and many other capacities.

Among the institutions offering employment to graduates are land-grant colleges, agricultural experiment stations, and extension services; the United States Departments of Agriculture, State, and Health Education and Welfare; state departments of welfare, health and education; farm journals and newspapers; voluntary social agencies, such as Red Cross, Community Chest, and Boy Scouts; and rural fraternal organizations, and cooperatives. The range of vocational pursuits open to rural sociology graduates is constantly widening.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in rural sociology is offered under the agricultural science curriculum of the School of Agriculture.

For the freshman year and basic requirements see pages 54 and 55.

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 Credits)

	<i>Credits</i>
ST 311, Introduction to Statistics _____	3
GN 411, Principles of Genetics _____	
or	
GN 301, Genetics in Human Affairs _____	3
MIG 120, Physical Geology _____	3
*Electives _____	17

Departmental Requirements and Electives (26 Credits)

	<i>Credits</i>
SOC 202, Principles of Sociology _____	3
RS 301, Sociology of Rural Life _____	3
SOC 301, Human Behavior _____	3
ANT 252, Cultural Anthropology _____	3
RS 321, Introduction to Social Research _____	
or	
SOC 416, Research Methods _____	3
RS 442, Rural Social Structure _____	
or	
SOC 511, Social Theory _____	3
Electives _____	8

Graduate Study

The Master of Science and the Doctor of Philosophy degrees are offered by this department. Graduate students studying for the Doctor of Philoso-

* Six credits may be elected from Groups B and C. Additional electives may be chosen from Group D.

phy degree are required to take approximately 15 semester hours in the Department of Sociology at the University of North Carolina, Chapel Hill. Students seeking the Master of Science degree may take courses at Chapel Hill, but normally will be able to complete their entire programs at State College.

Advanced work in rural sociology provides training in a number of social sciences and prepares the graduate student for a wide variety of positions.

Department of Soil Science

Professor JAMES WALTER FITTS, *Head of the Department*

TEACHING AND RESEARCH

Professors:

WILLIAM VICTOR BARTHOLOMEW, JAMES FULTON LUTZ, RALPH JOSEPH McCracken, WILLIE GARLAND WOLTZ, WILLIAM WALTON WOODHOUSE, JR.

Associate Professors:

CHARLES B. DAVEY, HOMER CLIFTON FOLKS, WILLIAM ADDISON JACKSON, EUGENE JOHN KAMPRATH, CHARLES BERNARD McCANTS, JAMES RODNEY PILAND, PRESTON HARDING REID, JAMES MAURICE SPAIN, RICHARD JAMES VOLK, STERLING BARG WEEDE, SANFORD EUGENE YOUNTS

Assistant Professors:

MAURICE GAYLE COOK, FREDERICK RUSSELL COX, DORIS LEE CRAIG, GEORGE AUGUST CUMMINGS, EUGENE FRIZZELLE GOLDSTON, ROBERT EDMUND MCCOLLUM, RAYMOND J. MILLER, JAMES EDWARD SHELTON

Instructors:

CARLOS PAUL BICKFORD, CHARLES BENNETT ENGLAND, RALPH AVERY LEONARD

EXTENSION

Professor EMERSON R. COLLINS, *In Charge of Agronomy*

Assistant Professor:

WILLIAM CALVIN WHITE

Assistant Professors:

J. FRANK DOGGETT, CLIFFORD K. MARTIN

The primary objective of the Department of Soil Science is to train students in the fundamental principles of soils, their utilization and management. Soils constitute one of the largest capital investments in farming and proper soil management is essential for efficient production. Therefore, the demand by educational, research and service agencies and by industry for men trained in soils should continue to be great.

The Department of Soil Science is housed in Williams Hall.

Opportunities

Soil Science graduates are trained to fill positions of leadership in many areas of agricultural work, such as county extension agents; farm operators and managers; soil conservation service representatives; technicians or salesmen in fertilizer companies. Provision is also made for those students who wish to obtain a more thorough training in mathematics, chemistry, physics, and biological sciences in anticipation of graduate study. Students with advanced degrees have unlimited opportunities in teaching, research, and extension with state and federal institutions as well as increasing opportunities with commercial concerns.

Undergraduate Curriculum

The degree of Bachelor of Science with a major in soil science is offered under all three of the curricula in the School of Agriculture.

For the freshman year and basic requirements see pages 54-56.

Agricultural Business—The requirements of the agricultural business curriculum are as follows:

Group B Courses (24 Credits)

	Credits
Electives	24

Group A and C Courses (6 Credits)

Electives	6
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Departmental Requirements and Electives (26 Credits)

MIG 120, Physical Geology	3
SSC 200, Soils	4
SSC 341, Soil Fertility and Fertilizers	3
SSC 302, Soils and Plant Growth	3
SSC 480, Senior Seminar	1
SSC 461, Soil Conservation and Management	3
SSC 452, Soil Classification	3
Electives	6

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Group A Courses (26 Credits)

	Credits
MA 201, Analytic Geometry and Calculus I	4
MA 202, Analytic Geometry and Calculus II	4
MIG 120, Physical Geology	3
BO 312, General Bacteriology	4
BO 421, Plant Physiology	4
PY 212, General Physics	4
•Elective	3

Departmental Requirements and Electives (26 Credits)

	Credits
CH Chemistry	12
SSC 200, Soils	4
SSC 480, Senior Seminar	1
SSC 341, Soil Fertility and Fertilizers	3
SSC 302, Soils and Plant Growth	3
Select two of the following courses:	
SSC 461, Soils Conservation and Management	3
SSC 452, Soil Classification	3

Agricultural Technology—The requirements of the agricultural technology curriculum are as follows:

Group A and B Courses (9-12 Credits)

	Credits
Electives	9-12

* May be elected from Groups B and C.

Departmental Requirements and Electives (27 Credits)

	<i>Credits</i>
MIG 120, Physical Geology	3
BO 312, General Bacteriology	4
BO 421, Plant Physiology	4
SSC 341, Soil Fertility and Fertilizers	3
SSC 302, Soils and Plant Growth	3
SSC 480, Senior Seminar	1
SSC 461, Soil Conservation and Management	3
SSC 452, Soil Classification	3
Elective From Group A or B	3

Graduate Study

The Department of Soil Science offers training leading to the degrees of Master of Science and Doctor of Philosophy in the following fields: soil chemistry, soil fertility, soil physics, soil genesis and soil microbiology.

Department of Zoology

Professor F. S. BARKALOW, JR., Head of the Department

TEACHING AND RESEARCH

Professors:

R. HARKEMA, M. R. KARE, T. L. QUAY, R. W. STACY

Associate Professors:

W. W. HASSLER, G. C. MILLER, J. A. SANTOLUCITO

Assistant Professors:

C. W. ALLISTON, F. E. HESTER

Instructors:

GEORGETTE CAMPBELL, F. L. ROBERTS

EXTENSION

Assistant Professor H. M. FIELDS, In Charge of Wildlife

The Department of Zoology at North Carolina State is organized to serve three purposes: (1) it serves the Schools of Agriculture, Forestry, and Education by teaching courses of a fundamental nature essential to a complete understanding and mastery of applied science; (2) it provides training in zoology which prepares students for positions in industrial and governmental laboratories; (3) it provides undergraduate curricula leading to graduate and professional training in dentistry, medicine, veterinary medicine, and advanced zoological sciences; (4) it furnishes potential leaders in the field of wildlife conservation and game management through a curriculum in wildlife biology.

The Department of Zoology is housed in Gardner Hall.

Opportunities

The zoology program is sufficiently flexible to provide the basic training for students who wish to continue their education at the graduate level, or its equivalent.

Five categories of positions are available to wildlife graduates: administrative, law enforcement, refuge, education, and research. Agencies employing the majority of trained men are state game and fish departments,

U. S. Fish and Wildlife Service, U. S. Forest Service, U. S. Soil Conservation Service, U. S. National Park Service, Pure Food and Drug Administration, and other Federal land-use departments.

Employment opportunities continue to be good, especially at the graduate level. No excess of wildlife graduates is anticipated in the immediate future.

Unusual advantages are offered by the wide range of natural environments in North Carolina's Coastal Plain, Piedmont, and mountain regions. Close cooperation with the North Carolina Wildlife Resources Commission provides opportunities for observing developments in wildlife management on its 27 wildlife management and refuge areas.

Undergraduate Curriculum—Wildlife Biology

The Department of Zoology offers the degree of Bachelor of Science with a major in wildlife biology under the School of Agriculture's agricultural science curriculum.

For the freshman year and basic requirements see pages 54 and 55.

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

Language (3 Credits)

ENG 231, Basic Speaking Skills 3

Group A Courses (21-24 Credits)

ZO 205, Invertebrate Zoology 4
 ZO 206, Vertebrate Zoology 4
 One course in Botany 2 or 3
 One course in Entomology 3
 One course in Organic Chemistry 3
 Electives (from Botany, Chemistry, Soil Science, Geology, Entomology, Genetics,
 Mathematics and/or Statistics) 2 or 4
 *Electives 3

Departmental Requirements and Electives (29 Credits)

ZO 223, Comparative Anatomy 4
 ZO 301, Animal Physiology 4
 ZO 321, Wildlife and Natural Resource Conservation 3
 ZO 522, Animal Ecology 3
 ZO 520, Fishery Science 3
 ZO 551, Wildlife Science 3
 ZO 521, Fishery Science 3
 or
 ZO 552, Wildlife Science 3
 Advised Electives 6

Undergraduate Curriculum—Zoology

The degree of Bachelor of Science with a major in zoology is offered under the agricultural science curriculum.

For the freshman year and basic requirements see pages 54 and 55.

Agricultural Science—The requirements of the agricultural science curriculum are as follows:

* May be elected from Groups B and C.

Languages (3 Credits)

	<i>Credits</i>
ENG 231, Basic Speaking Skills	3

Group A Courses (26 Credits)

ZO 301, Animal Physiology	4
ZO 223, Comparative Anatomy	4
Restricted Electives from Group A	12
Restricted Electives from Groups A, B, and/or C	6

Departmental Requirements and Electives (26 Credits)

Advised electives (two courses must be in Zoology)	26
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Graduate Study

The Master of Science and the Doctor of Philosophy degrees are offered in animal ecology and wildlife biology. Graduate programs leading to advanced degrees in the areas of animal parasitology and physiology can be arranged in cooperation with the Department of Zoology of the University of North Carolina at Chapel Hill. Graduate programs are offered which include course work at Duke University and at the Duke Marine Laboratory.

The North Carolina Agricultural Institute

H. BROOKS JAMES, Dean of Agriculture

EDWARD W. GLAZENER, Director of Instruction

HOMER C. FOLKS, Assistant Director of Instruction and Director of the Agricultural Institute

A two year program in agriculture was approved and money was appropriated for this purpose by the 1959 General Assembly. Through action of the Board of Trustees of the Greater University, this two year program was named the North Carolina Agricultural Institute and was approved for operation on the North Carolina State College campus.

The major objective of the Agricultural Institute is to provide technical training to the individual so that he may become more productive in our agricultural society. Specifically, instruction offered by the Agricultural Institute is designed to train men and women for those jobs in agriculture that require technicians with education beyond the high school level. An individual with this type of training should have a better income, assume a more prominent role of leadership, and become an asset to agriculture and to his community.

The instructional programs of the Agricultural Institute are organized and conducted as part of the School of Agriculture's over-all resident instruction program. The Institute is an addition to, and not a substitute for, the regular degree-granting program of the School of Agriculture. However, in order to provide students enrolled in the Institute with the best possible technical training, the faculty in residence for the four year program is responsible for organizing and teaching courses offered by the Institute.

People who have training similar to that which can be obtained in the courses offered in the Agricultural Institute are in great demand by agricultural industries. As this demand changes, new courses of study will be organized. Also, programs no longer needed will be dropped. Only through such a system of addition and deletion can the Agricultural Institute meet the needs for technically trained people in North Carolina.

Opportunities for Graduates

Rapid technical advancement has been extremely important in changing agriculture from a small production industry to one of the largest industries in the nation. Today the farmer uses scientifically developed seed, feed, fertilizer; does most of his work with machinery and has scientific testing to back up his management decisions. Increased production has allowed him to sell much of his production rather than just the surplus above home consumption. Farms have become larger due to these technological advances and large amounts of capital are needed to operate successfully. All of these factors bring about dependence on outside sources of information and capital for success in a modern agricultural business.

Not only the person who farms, but the hundreds of related businesses that are a vital part of agriculture today can not operate successfully without men trained in technical skills.

Entrance Requirements

Any individual who has received a diploma from an accredited high school or has passed the high school equivalency examination administered by the State Department of Public Instruction is eligible for entry into the Agricultural Institute. Each application will be reviewed and evaluated by the Institute director before an applicant will be accepted.

Program of Study

The seven programs of study offered are farm machinery sales and service, general agriculture, livestock management and technology, poultry technology, pest control, ornamental crops technology, and field crop technology.

The Agricultural Experiment Station

H. BROOKS JAMES, Dean of Agriculture
R. L. LOVVORN, Director of Research

The Agricultural Experiment Station was established in accordance with an act of the General Assembly of 1877 and amended in 1955. The North Carolina General Assembly has allocated to the Station, annually, certain funds from the General Fund.

The purpose of the Agricultural Experiment Station is to study the basic laws of nature underlying agricultural enterprises and to develop methods

for economic production of the highest grades of livestock, poultry, and plants on the many soil types and under the varied conditions existing in North Carolina; to study methods for the control of parasitic insects and organisms that cause serious economic losses of animals, poultry, and plants; to find and develop varieties of animals, poultry, and plants new and resistant to diseases and the changeable conditions prevailing in the State; and to perfect better marketing for all agricultural products.

The staff of the Experiment Station conducts experiments in the greenhouse and laboratories of the College and throughout the State on areas owned by farmers on 16 strategically located experimental farms and on farms rented for short periods.

The agricultural research aims, through the discovery of new facts, to improve the well-being of farmers throughout the State; to strengthen the regulatory work of the State Department of Agriculture; to develop new and necessary facts for the teaching of sound agricultural principles by vocational agricultural instructors, agricultural extension agents, and agricultural instructors in the College.

The Agricultural Experiment Station staff brings to the College many experts, whose teaching in many specialized fields of agriculture assures the maintenance of curricula of high standards. It contributes much to the advanced training of students who are destined to become the leaders, teachers, and investigators necessary in the maintenance of agriculture on sound and economic planes.

Publications

The Agricultural Experiment Station publishes many bulletins and scientific papers on results of research conducted by the staff. These are free and are sent upon request to anyone in the State.

Services

The staff diagnoses and interprets many problems for the farmers of North Carolina. It holds council with farmers and others interested in the agricultural industry, presents radio programs devoted to the discussion of farming procedures, and writes many letters on more specific problems of agriculture at the request of farmers, members of garden clubs, and manufacturers of fertilizer, fungicides and insecticides. It also takes part in many of the administrative functions of the College.

Cooperative Agricultural Extension Work

H. BROOKS JAMES, Dean of Agriculture
R. W. SHOFFNER, Director of Extension
I. O. SCHAUB, Director Emeritus of Extension
DAVID S. WEAVER, Director Emeritus of Extension

The Agricultural Extension Service of State College is conducted co-operatively with the United States Department of Agriculture and with the one hundred counties in North Carolina. Its work is supported by

federal funds derived from the Smith-Lever Act of 1914, the Capper-Ketcham Act of 1928, the Bankhead-Jones Act of 1935, the Bankhead-Flannagan Act of 1945, and by State and county appropriations. Federal and State appropriations are used to maintain an administrative and specialist staff and to supplement salaries and travel expenses of county extension agents, who are located at each county seat in the State.

Objectives

The purpose of the Extension Service is to take to the rural people of North Carolina the latest and best information obtainable for building a more prosperous and satisfying life on the farm. In carrying out this purpose, the College maintains a staff of trained specialists, a system of county agents and assistants, and home economics agents who work with the farmer and his family and who administer a state-wide educational program. Work is also done with firms which furnish the tools and supplies for farm production and which market and process agricultural commodities. In these programs the Extension Service employs a variety of methods and devices. These include method and result demonstrations for group meetings, a training program for farm leaders within the community, and close contact with organized clubs of men, women, and young people. The service also publishes a great number of pamphlets, bulletins and circulars which it distributes free of charge. In addition, it holds a number of short courses, both on the College campus and elsewhere throughout the State, to offer rural leaders advice and training in creating better homes and farms and in using more efficient farming practices.



School Of Design

HENRY L. KAMPHOEFNER, Dean

The School of Design in its teaching recognizes the dangers inherent in a materialist-mechanistic civilization where there may be an over-reliance on the machine and the mechanical devices available for use in the construction of shelter. Therefore, the school gives attention to the larger responsibility of architecture, the art of humanizing the environment. Also, the school seeks to integrate the architect as a social human being and the architect as scientist-engineer, and encourages and nurtures the architect-engineer as the coordinator of the structural dynamics in the over-all pattern of life.

While the School of Design's first aim is to serve North Carolina and the regions of the South, the students are well equipped, through the teaching of the school, to work in any region.

Because character, a profound devotion, and an absolute professional commitment are prime ingredients of any creative activity where the social responsibilities are as vital as in architecture and design, the school fosters and cultivates the integrity of the individual.

The School of Design emphasizes individual creative expression and at the same time teamwork is encouraged and developed.

The faculty members of the School of Design have been selected for their individual and diverse personal philosophies and their individual yet divergent professional qualifications. The school has brought together creative personalities willing in their teaching to subordinate their own professional interests to the interests of their students. Each School of Design faculty member gives the young student the benefit of his professional knowledge, his technical training, and his experience as a citizen.

To combat the dangers of over-specialization the school seeks to develop the personality and character of the student as a whole. The goal in the growth of the student is not only the mastery of the architectural techniques of the profession; but through the stimulation and development of the intellectual and emotional capacities together, a readiness is developed to meet the challenge of any environment.

The School of Design is intended to act as an educational center which unifies different design professions in the fundamental knowledge and methods which they share; its further intention is the education of men who will be competent within the specific demands and limitations of a particular field of design. The existence of contemporary design is considered to be a requirement of contemporary man, and the greatest purpose of contemporary design is considered to be the solution of those re-

quirements through full use of the ingenuity and knowledge of contemporary man. Through this point of view the technical and factual aspects of design present no conflict with its philosophical and aesthetic standards.

The School of Design is comprised of the Departments of Architecture, Landscape Architecture, and Product Design.

The three professional fields have been grouped under one broad and unified study of the methods and values which are common to all designers, and they are separated only in the study of their application in the work of a single profession. Many classes throughout the curricula will include students in these professional fields; and for all students the course of study is the same during the first year in order that, having become more familiar with the whole scope of activity in design, they may then select the design profession in which they are most interested.

Training in drawing, painting, sculpture and other visual arts is conducted by specialists within the staff of the School of Design; the essential knowledge of techniques and materials is taught by this faculty and other departments of the College; and the past and present of the professions are taught by this faculty. These ingredients of design training are assimilated through their application in the design courses. Thus the student is required to increasingly combine these studies as he advances through the course so that he may achieve that comprehensive combination which is a necessity in the designer. Much of the student's work will be done in laboratory courses since design is a matter of the application of knowledge rather than its mere accumulation. From his first day in class to his last the student is asked to design, and he is counseled so that he may become a responsible professional in the broadest sense.

Curricula

The School of Design offers professional instruction to the undergraduate in architecture, landscape architecture, and product design. A graduate program in all three departments is projected for the future.

Degrees

The five-year curricula offer courses of study leading to the Bachelor of Architecture, Bachelor of Landscape Architecture, and the Bachelor of Product Design.

Facilities

The School of Design moved to Brooks Hall in January, 1956. Brooks Hall is the former Hill Library, built in 1928. The new Brooks Hall is a remodeling of 28,000 square feet of floor space and a new addition of 20,000 square feet. All of the facilities of the school are now in modern, especially designed quarters under one roof.

Opportunities

State law now requires the graduate architect to work not less than three years in the offices of registered architects and to pass the four day written

examination given by the North Carolina Board of Architecture before he is ready to begin his own practice. The great national boom in building construction since World War II has brought a tremendous volume of work into the offices of the South, offering many attractive positions for the architectural graduate. The architectural graduate is also qualified for positions in certain branches of engineering, building research and teaching.

The accelerated urban growth of the twentieth century has created an unprecedented demand for landscape architects that far exceeds the production of schools. These positions exist in both public and private organizations, encompassing a range of interests from city and regional planning to residential developments. For the competent graduate advancement is rapid, and remuneration above average.

Evidence of the soundness of the course of study and the programs in design at North Carolina State College is reflected by two of the school's recent graduates who have been awarded the Fellowship in Landscape Architecture to the American Academy in Rome—a prize awarded annually to any design graduate in the United States and affording two years of advanced study in Europe, providing all expenses and residence at the American Academy in Rome. Four graduates of the school have won the top academic award in Architecture, the Paris Prize, which is a scholarship worth \$5,000 for a year's study in Europe.

The Department of Product Design, which took its first students in September 1958, prepares graduates to work as resident designers with the furniture manufacturers and other essential and important industries of the State. Graduates of the department will also be qualified to establish offices as professional industrial designers in the major cities of the State.

Department of Architecture

Professors:

HARWELL H. HARRIS, DUNCAN R. STUART

Associate Professors:

JOSEPH N. BOAZ, JOSEPH H. COX, JERZY GLOWCZEWSKI, CHARLES H. KAHN, EDWARD W. WAUGH

Assistant Professors:

GEORGE L. BIRELINE, PAUL BUISSON, JOHN HERTZMAN, CHARLES M. SAPPENFIELD, VERNON SHOGREN, BRIAN SHAWCROFT, E. WAYNE TAYLOR, RICHARD S. WURMAN

Instructors:

D. GRANT JOSLIN, WILLIAM C. NICHOLS

Librarian:

MRS. JAMES A. LYONS

Architecture demands a fusion of the artist's decision with competent technical judgments. If it is good architecture, the design must be the product of creative insight into the meaning of the building as an object defining spaces, and must also embody an artistic declaration of the building's meaning to men and to their advancement. At the same time architecture must be technologically feasible and economically sound, and the form and spirit of the design must survive and be strengthened by the

lengthy and complicated methods by which it is transformed into a building. Good architecture does not acknowledge that the conception of a design and its execution are opposed to each other. Instead, it joins the two so that they are realized in a single act, and subjective and conceptual choices are based on a clear and complete understanding of reality.

The training of architects must stir in them the realization that technical skill is meaningless without a guiding purpose and that practical problems they face need not be opposed to their dreams and ambitions. In arts and letters the student must learn and value the purpose of architecture; in science and engineering he must learn the principles that challenge or limit him; and in his study of architecture he must learn the fusion of science and art in buildings. Four parallel programs (architecture, art, humanities and social sciences, and science and engineering) occupy the student throughout his program of study. After its completion the student is not merely ready for the apprenticeship that precedes his becoming a qualified architect. He is prepared to ponder and evaluate the things he learns during his apprenticeship and the things he learns as his self-education continues. Thus, he can combine the practical requirements of the working profession of architecture with the even more practical desire to realize the full meaning of his profession.

Architecture Curriculum

First Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 101, Design I _____	3	DN 102, Design II _____	3
DN 111, Descriptive Drawing I _____	2	DN 112, Descriptive Drawing II _____	2
DN 121, Technical Drawing I _____	3	DN 122, Technical Drawing II _____	3
ENG 111, Composition _____	3	ENG 112, Composition _____	3
MA 101, Algebra and Trigonometry _____	5	MA 102, Analytic Geometry and Calculus I _____	4
MS 101, Military Science I _____		MS 102, Military Science I _____	
or		or	
AS 121, Air Science I _____	1	AS 122, Air Science I _____	1
PE 101, Physical Education _____	1	PE 102, Physical Education _____	1
	18		17

Second Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ARC 201, Architectural Design I _____	4	ARC 202, Architectural Design II _____	4
DN 211, Descriptive Drawing III _____	2	DN 212, Descriptive Drawing IV _____	2
HI 245, European Civilization _____	3	EM 200, Introduction to Mechanics _____	3
MA 201, Analytic Geometry and Calculus II _____	4	HI 246, European Civilization _____	3
PY 211, General Physics _____	4	PY 212, General Physics _____	4
MS 201, Military Science II _____		MS 202, Military Science II _____	
or		or	
AS 221, Air Science II _____	1	AS 222, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
	19		18

Summer Requirement

Two weeks on Historic Architecture Research—Field Work

Third Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Fall Semester</i>	<i>Credits</i>
ARC 301, Architectural Design III _____	6	ARC 300, Historic Architecture	
CE 338, Structures I _____	4	Research _____	2
DN 311, Advanced Descriptive		ARC 302, Architectural Design IV _____	6
Drawing I _____	2	ARC 312, Materials and Specifications _____	3
DN 321, History of Architecture I _____	3	CE 339, Structures II _____	4
EM 301, Solid Mechanics I _____	3	DN 312, Advanced Descriptive	
*Elective _____	3	Drawing II _____	2
	<hr/>	DN 322, History of Architecture II _____	3
	21		<hr/>
			20

Summer Requirement

Ten weeks on approved construction or office project experience.

Fourth Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ARC 377, Environmental Factors _____	3	ARC 378, Environmental Factors _____	3
ARC 401, Architectural Design V _____	6	ARC 402, Architectural Design VI _____	6
ARC 421, Structural Design I _____	3	ARC 422, Structural Design II _____	3
DN 411, Advanced Descriptive		DN 412, Advanced Descriptive	
Drawing III _____	2	Drawing IV _____	2
DN 421, History of Design I _____	3	DN 422, History of Design II _____	3
*Elective _____	3	*Elective _____	3
	<hr/>		<hr/>
	20		20

Fifth Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ARC 501, Architectural Design VII _____	7	ARC 502, Architectural Design VIII _____	9
ARC 511, Professional Practice _____	2	ARC 532, Structural Design IV _____	2
ARC 531, Structural Design III _____	2	PHI 306, Philosophy of Art _____	3
DN 541, Seminar on Ideas in Design _____	2	*Elective _____	4
*Elective _____	6		<hr/>
	<hr/>		18
	19		

* Six credits of elective will be required in the literature of English and three in the social sciences. The remaining 10 hours shall be free electives. (Total credits for Bachelor of Architecture—190.)

Department of Landscape Architecture

Associate Professor RICHARD A. MOORE, *Head of the Department*

Professors:

LEWIS J. CLARKE, EDWIN G. THURLOW, DUNCAN R. STUART

Associate Professor:

JOSEPH H. COX

Assistant Professors:

GEORGE L. BIRELINE, JOHN HERTZMAN

Instructor:

D. GRANT JOSLIN

Landscape architecture, beginning in ancient times, is now defined as the design of outdoor space for the benefit, protection, use and enjoyment of people. Never before have the challenges to this profession been so great, diverse, and complex. It is to their solutions that this department is directed. One such challenge is the design of landscapes with architectural character and scale, such as those associated with the city, town, park, and garden. Another challenge is the designed development of the earth's resources in landscapes of varying character, from coast to mountain, from desert to pasture. Unlike many art forms time is an essence of the design, and long periods are often necessary before it has grown to completion. Architectural and engineering materials are used together with plants and trees. These latter materials have a continuous cycle of growth and movement, closely coupled with the forces of nature. The profession is both an art and a science, depending at the same time upon logic and technology.

A student in the department is associated with allied fields such as architecture, engineering, painting, sculpture, horticulture, botany, geology, and ecology. In spite of the necessity for assimilation of such specialized requirements, he must possess a background from which to design. For this reason he is given a sound and thorough analysis of the past through the study of historical examples. With the rapid growth of the world's population and the increasingly intensive use of land, it is imperative that the student have both ability and clarity of purpose if he is to develop and design landscape solutions that are beautiful, useful, productive, and of continuing value.

Landscape Architecture Curriculum

First Year			
<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 101, Design I _____	3	DN 102, Design II _____	3
DN 111, Descriptive Drawing I _____	2	DN 112, Descriptive Drawing II _____	2
DN 121, Technical Drawing I _____	3	DN 122, Technical Drawing II _____	3
ENG 111, Composition _____	3	ENG 112, Composition _____	3
MA 101, Algebra and Trigonometry _____	5	MA 102, Analytic Geometry and Calculus I _____	4
MS 101, Military Science I or		MS 102, Military Science I or	
AS 121, Air Science I _____	1	AS 122, Air Science I _____	1
PE 101, Physical Education _____	1	PE 102, Physical Education _____	1
	18		17

Second Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ARC 201, Architectural Design I	4	ARC 202, Architectural Design II	4
BO 103, General Botany	4	DN 212, Descriptive Drawing IV	2
DN 211, Descriptive Drawing III	2	HI 246, European Civilization	3
HI 245, European Civilization	3	MIG 120, Physical Geology	3
PY 211, General Physics	4	PY 212, General Physics	4
MS 201, Military Science II		MS 202, Military Science II	
or		or	
AS 221, Air Science II	1	AS 222, Air Science II	1
PE 201, Physical Education	1	PE 202, Physical Education	1
	19		18

Summer Requirement

Two weeks Historic Architecture or Landscape Architecture Research—Field Work.

Third Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 311, Advanced Descriptive Drawing I	2	ARC 300, Historic Architecture Research	2
DN 321, History of Architecture I	3	DN 312, Advanced Descriptive Drawing II	2
HS 211, Ornamental Plants	3	DN 322, History of Architecture II	3
LA 301, Landscape Design I	5	HS 212, Ornamental Plants	3
LA 311, Landscape Construction	4	LA 302, Landscape Design II	5
*Elective	3	LA 312, Landscape Construction	4
	20		19

Summer Requirement

Ten weeks on approved construction or office project experience.

Fourth Year

		<i>Spring Semester</i>	<i>Credits</i>
BO 441, Plant Ecology	3	DN 412, Advanced Descriptive Drawing IV	2
DN 411, Advanced Descriptive Drawing III	2	DN 422, History of Design II	3
DN 421, History of Design I	3	LA 402, Landscape Design IV	6
LA 401, Landscape Design III	6	LA 422, Planting Design	4
LA 421, Planting Design	4	*Electives	6
*Elective	3		
	21		21

Fifth Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 511, Advanced Descriptive Drawing V	2	DN 512, Advanced Descriptive Drawing VI	2
DN 541, Seminar on Ideas in Design	2	LA 502, Landscape Design VI	8
LA 501, Landscape Design V	6	PHI 306, Philosophy of Art	3
LA 511, Landscape Construction and Professional Practice	4	*Electives	6
*Electives	4		
	18		19

* Six credits will be required in the literature of English and six in the social sciences. The remaining 10 hours shall be free electives. (Total credits for the Bachelor of Landscape Architecture—190.)

Department of Product Design

Associate Professor VICTOR J. PAPANEK, *Head of the Department*

Professor:

DUNCAN R. STUART

Associate Professor:

JOSEPH H. COX

Assistant Professors:

WILLIAM J. BARON, GEORGE L. BIRELINE, JOHN HERTZMAN, CLARK MACOMBER

Instructor:

D. GRANT JOSLIN

Product design (or industrial design) has most often been associated with the appearance value and other sensory attributes of mass-produced products of every description. It is relatively new as a profession, dating back to the early thirties, when early attempts at "styling" helped to sell consumer goods in a depressed market. Today the designer's influence has spread to almost every object we buy or use in daily life, from transportation and farm machinery to household appliances, furniture, office equipment, hardware, and toys.

Students in the Department of Product Design search for new ways to solve product problems, questioning prosaic solutions, and employing their understanding of materials and techniques at a high level of creative activity. New products and functional improvements are developed in the design laboratory and described in models, sketches, and engineering drawings. The student includes a summary of production requirements, cost estimates, distribution methods, packaging ideas and other pertinent information required to make his reports inclusive of all the skills developed at the school, in simulation of the product problem. The profession requires exceptional creative ability, coupled with sound judgment for the responsibilities implicit in design for large scale consumption. There are few areas more rewarding economically, or in the personal satisfaction of design for human need.

Product Design Curriculum

First Year			
<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 101, Design I	3	DN 102, Design II	3
DN 111, Descriptive Drawing I	2	DN 112, Descriptive Drawing II	2
DN 121, Technical Drawing I	3	DN 122, Technical Drawing II	3
ENG 111, Composition	3	ENG 112, Composition	3
MA 101, Algebra and Trigonometry	5	MA 102, Analytic Geometry and	
MS 101, Military Science I		Calculus I	4
or		MS 102, Military Science I	
AS 121, Air Science I	1	or	
PE 101, Physical Education	1	AS 122, Air Science I	1
	—	PE 102, Physical Education	1
	18		—
			17

Second Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 211, Descriptive Drawing III _____	2	DN 212, Descriptive Drawing IV _____	2
HI 245, European Civilization _____	3	HI 246, European Civilization _____	3
IE 217, Machine Tools _____	1	IE 218, Metal Forming _____	1
MA 201, Analytic Geometry and Calculus II _____	4	PD 202, Product Design and Orientation	4
PD 201, Product Design and Orientation	4	PSY 200, Introduction to Psychology ____	3
PY 211, General Physics _____	4	PY 212, General Physics _____	4
MS 201, Military Science II or		MS 202, Military Science II or	
AS 122, Air Science II _____	1	AS 222, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
	—		—
	20		19

Third Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, General Chemistry I _____	4	CH 103, General Chemistry II _____	4
DN 311, Advanced Descriptive Drawing I _____	2	DN 312, Advanced Descriptive Drawing II _____	2
EC 425, Industrial Management _____	3	EM 301, Solid Mechanics _____	3
EM 200, Introduction To Mechanics ____	3	PD 302, Product Design _____	6
PD 301, Product Design _____	6	PD 332, Materials and Processes _____	3
PD 331, Materials and Processes _____	3	Elective _____	3
	—		—
	21		21

Fourth Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 411, Advanced Descriptive Drawing III _____	2	DN 412, Advanced Descriptive Drawing IV _____	2
IE 301, Engineering Economy _____	2	IE 425, Sales and Distribution Methods	2
PD 401, Advanced Product Design _____	6	PD 402, Advanced Product Design _____	6
PD 441, Design Analysis _____	2	PD 422, Office and Industrial Practice ..	2
*Electives _____	7	PD 442, Design Analysis _____	2
	—	*Electives _____	6
	19		—
			20

Fifth Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
DN 511, Advanced Descriptive Drawing V _____	2	DN 512, Advanced Descriptive Drawing VI _____	2
DN 541, Seminar on Ideas in Design ____	2	PD 502, Product Design Thesis _____	9
PD 501, Advanced Product Design _____	8	PSY 441, Human Factors in Equipment Design _____	3
PSY 464, Visual Perception _____	3	*Electives _____	3
*Electives _____	3		—
	—		—
	18		17

* Six credits will be required in the literature of English and six in the social sciences. The remaining 10 hours shall be free electives. (Total credits for the Bachelor of Product Design—190.)



School Of Education

J. BRYANT KIRKLAND, Dean

With the current and anticipated increase in the number of secondary school age boys and girls in North Carolina, it is necessary for the educational institutions of the State to prepare a greater number of students to be teachers in the public schools. There is a particular need for teachers in the areas of vocational agriculture, industrial arts, industrial education, mathematics and science.

The School of Education graduates students who are qualified for teaching positions in these areas.

The school includes the Departments of Agricultural Education, Industrial Arts, Industrial Education, Mathematics and Science Education, Occupational Information and Guidance, Psychology, and Recreation and Park Administration.

Objectives

The primary purpose of the Departments of Agricultural Education, Industrial Arts, Industrial Education, Mathematics and Science Education is to prepare students to become teachers in the North Carolina Public Schools. Satisfactory completion of the curriculum requirements in any of these departments qualifies a graduate to receive an A Grade certificate to teach in his chosen area. The curriculum in the Department of Recreation and Park Administration is designed primarily to prepare students to become leaders of recreation programs in industry, institutions, and municipalities.

The Departments of Psychology and Occupational Information and Guidance offer professional instruction at the graduate level for psychologists and vocational counselors. In addition, these departments provide service courses for undergraduate students in the School of Education and the other schools of the College.

Opportunities

Agricultural education graduates find jobs as teachers of vocational agriculture in which they conduct organized instructional programs of vocational agriculture for rural young people and adults.

Public schools employ competent industrial arts and industrial education teachers whose job is to familiarize the young people of the State, particularly those in the non-farm areas, with the available occupational opportunities which accompany an industrial expansion and to train these young people for entrance into the industrial occupations of their choice.

Graduates in the Department of Recreation and Park Administration secure jobs as recreational leaders for municipalities, industries and institutions while Department of Mathematics and Science graduates find jobs in public schools and industry. Students trained in the Department of Occupational Information and Guidance are employed by public schools as teachers and vocational counselors.

The Department of Psychology serves the various industries in the State by helping to improve their personnel selection programs and by conducting research designed to ascertain what factors influence efficiency of industrial employees.

Degrees

The Bachelor of Science in Education is awarded to the students who complete the curricula in Agricultural Education, Industrial Arts Education, Industrial Education, Mathematics Education and Science Education.

The School of Education also offers the Bachelor of Science in Recreation and Park Administration and the Bachelor of Science in Industrial Arts for those students pursuing the technical option curriculum.

The degree of Master of Education or the Master of Science in Education is offered to students majoring in Agricultural Education, Industrial Education, Industrial Arts Education and Guidance. The degree of Master of Science in Psychology is also offered.

Department of Agricultural Education

Professor C. C. SCARBOROUGH, Head of the Department

Professor Emeriti:

L. O. ARMSTRONG, J. K. COGGIN

Professor:

J. BRYANT KIRKLAND

Adjunct Professor:

G. B. JAMES

Research Associate Professor:

L. W. DRABICK

Assistant Professors:

T. R. MILLER, H. E. BEAM

Instructors:

C. D. BRYANT, C. H. ROGERS

The program in agricultural education is concerned with two large areas of study—education and agriculture. It is imperative that the objectives which give major direction to the program be clearly understood. People who produce, market, and/or process agricultural commodities are in a highly technical field. Emphasis is placed upon agriculture, agricultural products and processes. The education of people who plan to educate others in the area of agriculture is somewhat different. The objectives here are educational objectives. Agricultural objectives deal with agriculture—the improvement of crops, livestock, soils, and the like. Educational objectives relate to people—bringing about growth development, and desirable change in people. The primary concern of agricultural education is with educational objectives.

Agricultural education, in its broad sense, should encompass those areas of study and pursuit which would enable one to participate effectively in planning, promoting, and initiating educational programs in agriculture. Therefore, the description of a graduate in agricultural education would be more nearly an "educational leader" than an "agricultural specialist".

Every education leader as a person is a member of a family, a member of a community, a citizen (local, state, national, and international), and a professional worker. The experiences, understandings, and abilities needed by an educational leader are not gained through class work only. His home life, community life, dormitory and social life on the campus, all make contributions to his preparation for his work as an educational leader.

Undergraduate Program

The program in agricultural education includes education for personal development, for community living, for citizenship, for home living, and for educational leadership. These areas in the College program are divided into three groups:

- (1) general education
- (2) technical or special education
- (3) professional education

General education includes the education which everyone should have, namely, preparation for living effectively (1) with one's self, (2) with one's family, (3) in a community, (4) as a local, state, national, and world citizen, and (5) bringing to bear the knowledge of man in solving problems. The education of people should not differ fundamentally and widely in these areas.

Special, or technical education consists of securing an understanding and ability to solve agricultural problems, with emphasis upon managerial aspects. Particular attention is given to a consideration of the impact of these problems upon the people of North Carolina. That is, "facts and figures about agriculture" will not suffice as technical education for the educational leader. A knowledge and understanding of agriculture and the ability to identify agricultural problems, make decisions, and solve problems is essential.

Professional education includes an understanding of human behavior and development. Particular attention is given to an understanding of the learning process—as it occurs and how it can be accelerated. Consideration is also given to understanding how people work together in groups, particularly in rural communities. Ability to do research in the community is essential.

Graduate Program

Qualified graduate students may secure a Master of Science in Education or Master of Education degree. Interested persons should see the Graduate Catalog or write to the Agricultural Education Department.

Facilities and Resources

In addition to the College facilities and resources, the administrative personnel of most of the agricultural agencies and programs have offices in Raleigh. These people often serve as valuable resource people to students in agricultural education.

*Agricultural Education Curriculum

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
AG 103, Introduction to Agriculture	1	AGE 201, Agricultural Construction	
BO 103, General Botany	4	and Maintenance I	2
ED 102, Objectives in Agricultural		Agriculture Elective	3
Education	1	ENG 122, Composition	3
ENG 111, Composition	3	Math Elective	4
MA 111, Algebra and Trigonometry	4	ZO 103, General Zoology	4
MS 101, Military Science I		MS 102, Military Science I	
or		or	
AS 121, Air Science I	1	AS 122, Air Science I	1
PE 101, Physical Education	1	PE 102, Physical Education	1
	—		—
	15		18

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
AGE 202, Agricultural Construction		AGE 211, Farm Power and	
and Maintenance II	2	Machinery I	3
English Elective	3	AGC 212, Economics of Agriculture ..	3
CH 101, General Inorganic Chemistry ..	4	CH 203, General and	
PSY 200, Introduction to Psychology ..	3	Organic Chemistry	4
EC 201, Economics	3	ED 201, Farming Programs and FFA ..	2
MS 201, Military Science II		PSY 304, Educational Psychology	3
or		MS 202, Military Science II	
AS 221, Air Science II	1	or	
PE 201, Physical Education	1	AS 222, Air Science II	1
	—	PE 202, Physical Education	1
	17		—
			17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
AGC 311, Organization and Business		AGC 303, Organization and Business	
Management of Marketing		Management of Farms	3
Firms	3	Agricultural Engineering	
ED 344, Secondary Education	2	Elective	3
History Elective	3	ED 313, Teaching Rural People	2
RS 301, Sociology of Rural Life	3	ED 420, Principles of Guidance	2
SSC 200, Soils	4	English Elective	3
Free Elective	3	PSY 476, Psychology of Adolescence ..	2
	—	Free Elective	3
	18		—
			18

* A minimum of 137 semester credits required for graduation.

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
AGE 401, Problems in Farm Mechanics	3	Agriculture Electives	6
•ED 411, Student Teaching	6	Biological Science Elective	3
ED 412, Teaching Adults	2	Political Science Elective	3
ED 413, Teaching Materials	2	Free Electives	6
RS 321, Introduction to Social Research	3		—
	—		18
	16		

Department of Industrial Arts

Professor IVAN HOSTETLER, Head of the Department

Associate Professor:

TALMAGE B. YOUNG

Assistant Professors:

FRANK B. BRILEY, CARL A. MOELLER, ROBERT T. TROXLER

Instructor:

PAUL R. MEOSKY

Industrial arts comprises that area of education which concerns itself with materials, processes, and products of industry. It is concerned with a study of changes made in materials to make them more useful and with problems related to these changes.

The Department of Industrial Arts at North Carolina State College performs two functions: first, it prepares teachers and supervisors of industrial arts for secondary schools, and second, it provides practical training for students interested in technical jobs in industry, such as industrial work in production, personnel, industrial sales, estimating, job training, maintenance and installation.

Facilities

The Department of Industrial Arts is located in Tompkins Hall. Laboratory facilities are provided in drafting, woods, metals, electricity and electronics, graphic arts, and ceramics. In addition to these, a special experimental laboratory is provided in order to encourage experimentation and research in all of the industrial arts areas at the advanced undergraduate and graduate levels.

Opportunities

The opportunities for employment as industrial arts teachers in North Carolina are greater than ever before. The demand for industrial arts teachers is greater than the supply. The demand for industrial employment is also very great.

Graduate Study

Opportunities are provided for qualified students in Industrial Arts Education to do graduate work leading to the degree of Master of Education or Master of Science in Education. For additional information regarding graduate study, consult the Graduate School Catalog.

* Summer Practice (1 week) is required prior to student teaching.

Industrial Arts Education Curriculum

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 111, Composition _____	3	ENG 112, Composition _____	3
IA 100, Introduction to Industrial Arts _____	1	IA 104, Drafting II _____	3
IA 103, Drafting I _____	3	IA 108, Woods II _____	3
IA 107, Woods I _____	3	MS 102, Military Science I _____	
MA 111, Algebra and Trigonometry _____	4	or _____	
MS 101, Military Science I _____		AS 122, Air Science I _____	1
or _____		PE 102, Physical Education _____	1
AS 121, Air Science I _____	1	Mathematics Elective _____	4
PE 101, Physical Education _____	1		—
	—		15
	16		

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, General Inorganic Chemistry _____	4	EC 205, Economic Process _____	3
IA 206, Metal Processing I _____	3	ENG 231, Basic Speaking Skills _____	3
PSY 200, Introduction to Psychology _____	3	IA 207, Metal Processing II _____	3
PY 211, General Physics _____	4	PY 212, General Physics _____	4
MS 201, Military Science II _____		SOC 202, Principles of Sociology _____	3
or _____		MS 201, Military Science II _____	
AS 221, Air Science II _____	1	or _____	
PE 201, Physical Education _____	1	AS 222, Air Science II _____	1
	—	PE 202, Physical Education _____	1
	16		—
			18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 344, Secondary Education _____	2	ED 422, Methods of Teaching _____	
IA 205, Industrial Arts Design _____	2	Industrial Subjects _____	4
IA 307, Basic Electricity _____	3	IA 304, General Shop Organization _____	2
PSY 304, Educational Psychology _____	3	IA 308, Basic Electronics _____	3
English Elective _____	3	PS 201, The American Govern- _____	
History Elective _____	3	mental System _____	3
*Electives _____	3	PSY 476, Psychology of Adolescence _____	2
	—	*Electives _____	4
	19		—
			18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 444, Student Teaching in _____		ED 420, Principles of Guidance _____	2
Industrial Subjects _____	6	IA 480, Modern Industries _____	3
ED 482, Curriculum Problems in _____		*Electives _____	12
Industrial Arts _____	2		—
ED 483, Instructional Aids and Devices _____	2		17
IA 465, Independent Study in _____			
Industrial Arts _____	3		
IA 484, School Shop Planning and _____			
Equipment Selection _____	3		
*Electives _____	3		
	—		
	19		

* Twelve hours are to be technical electives; the remaining 10 hours are to be free electives.

Industrial Arts—Technical Option Curriculum

Freshman and sophomore years are the same as in industrial arts education.

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
IA 205, Industrial Arts Design	2	IA 308, Basic Electronics	3
IA 307, Basic Electricity	3	PSY 337, Industrial Psychology I	3
IE 310, Industrial Safety	2	SOC 301, Human Behavior	3
IE 332, Motion and Time Study	4	English Elective	3
PS 201, The American Govern- mental Systems	3	History Elective	3
*Elective	3	*Elective	3
	—		18
	17		

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 425, Industrial Management	3	EC 426, Personnel Management	3
IA 321, Metalwork Technology	2	EC 432, Industrial Relations	3
IA 480, Modern Industries	3	IE 430, Job Evaluation and Wage Incentives	3
IE 408, Production Control	3	*Electives	10
*Electives	8		—
	—		19
	19		

Department of Industrial Education

Professor DURWIN M. HANSON, *Head of the Department*

Assistant Professor:

FLOYD P. GEHRES

The Department of Industrial Education offers the only curriculum in the State that prepares teachers of industrial education for the public schools. The main goal is to provide public schools with adequately trained personnel who can, in turn, help to develop a vitally needed reservoir of skilled workers and technical personnel to man established industries as well as prepare for new industries. The curriculum is planned to provide students with broad cultural and professional backgrounds to parallel occupational experience.

Candidates for a degree must have had at least two years of successful trade or technical experience in the occupational area they wish to teach. The student who has not had this experience when he enters must fulfill the requirement before graduation either by working part of the school year or by completing the work experience after finishing the required resident courses.

Opportunities

The student who completes this curriculum will be prepared to teach in the all-day trade schools, area vocational technical schools and the part-time, or evening vocational classes. Graduates have no difficulty in obtaining employment as institutional teachers.

* Twelve hours are to be technical electives; the remaining 12 hours are to be free electives.

Graduate Study

General and specialized professional courses are available to qualified students who wish to pursue graduate study as industrial education teachers, supervisors or coordinators of diversified occupations. The completion of the Master of Education or Master of Science in Education degree in industrial education will also qualify one for a Graduate Certificate in North Carolina.

*Industrial Educational Curriculum

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 100, Introduction to Industrial Education _____	2	History Elective _____	3
ENG 111, Composition _____	3	ENG 112, Composition _____	3
MA 111, Algebra and Trigonometry _____	4	MA 112, Analytic Geometry and Calculus _____	
CH 101, General Inorganic Chemistry _____	4	or	
IA 103, Drafting I _____	3	MA 122, Mathematics of Finance and Elementary Statistics _____	4
MS 101, Military Science I _____		IA 104, Drafting II _____	3
or		MS 102, Military Science I _____	
AS 121, Air Science I _____	1	or	
PE 101, Physical Education _____	1	AS 122, Air Science I _____	1
		PE 102, Physical Education _____	1
	18		15

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 211, General Physics _____	4	PY 212, General Physics _____	4
ENG, English Elective _____	3	SOC 202, Principles of Sociology _____	3
PSY 200, Introduction to Psychology _____	3	EC 205, Economic Process _____	3
PS 201, American Government System _____	3	MS 202, Military Science II _____	
MS 201, Military Science II _____		or	
or		AS 222, Air Science II _____	1
AS 221, Air Science II _____	1	PE 202, Physical Education _____	1
PE 201, Physical Education _____	1	**Elective _____	5
**Elective _____	3		17
	18		

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 344, Secondary Education _____	2	PSY 337, Industrial Psychology _____	
PSY 304, Educational Psychology _____	3	or	
SOC 401, Human Relations in Industrial Society _____	3	PSY 476, Psychology of Adolescence _____	2-3
IE 310, Industrial Safety _____	2	ED 305, Analysis of Technical Education Programs and Course Construction _____	3
ED 327, History and Philosophy of Industrial-Technical Education _____	3	RPA 333, First Aid and Safety _____	2
**Elective _____	5	ED 422, Methods of Teaching Industrial Subjects _____	4
	18	English Elective _____	3
		**Elective _____	3

17-18

* Minimum of 136 Semester hours required for graduation.

** Fifteen hours of elective courses must be selected in accordance with the student's area of specialization and with approval of the adviser. Remaining hours may be taken from free electives.

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 440, Vocational Education _____	2	EC 425, Industrial Management _____	3
ED 483, Instructional Aids and Devices _____	2	EC 432, Industrial Relations _____	3
ED 405, Industrial and Technical Education Shop and Laboratory Planning _____	3	ED 420, Principles of Guidance _____	2
ED 444, Student Teaching in Industrial Subjects _____	6	*Elective _____	8
*Elective _____	3-4		
	<hr/>		<hr/>
	16-17		16

Department of Mathematics and Science Education

Associate Professor HERBERT E. SPEECE, *Head of the Department*
Assistant Professor:

HENRY A. SHANNON

The Department of Mathematics and Science Education offers curricula for students who wish to become teachers of mathematics or science. Each curriculum provides for a well-rounded professional preparation. There is sufficient flexibility in each curriculum to enable the student to meet certification requirements in both subject matter areas by proper selection of elective courses. This flexibility also enables the student to specialize in one subject matter area thus opening up job opportunities in related fields requiring a substantial background in mathematics and science, such as research teams in industry, government research projects involving rockets, guided missiles, computers or pure research.

Opportunities

The acute shortage of mathematics and science teachers in the secondary schools provides excellent employment opportunities for more graduates in this department. Attractive job opportunities are also available for industrial employment. The rapid technological and scientific developments during the past few years have accentuated the importance of mathematics and science. Future developments will depend upon the accomplishments of persons who have received adequate training in these areas.

* Fifteen hours of elective courses must be selected in accordance with the student's area of specialization and with approval of the adviser. Remaining hours may be taken from free electives.

Mathematics Education Curriculum*Freshman Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, General Inorganic Chemistry — 4		CH 103, General and Qualitative Chemistry — 4	
ENG 111, Composition — 3		ENG 112, Composition — 3	
History Elective — 3		MA 102, Analytic Geometry and Calculus I — 4	
MA 101, Algebra and Trigonometry — 5		MA 122, Mathematics of Finance and Elementary Statistics — 4	
MS 101, Military Science I		MS 102, Military Science I	
or		or	
AS 121, Air Science I — 1		AS 122, Air Science I — 1	
PE 101, Physical Education — 1		PE 102, Physical Education — 1	
	17		17

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 203, Introduction to Teaching — 2		BO 103, General Botany	
MA 201, Calculus II — 4		or	
PY 211, Physics — 4		ZO 103, General Zoology — 4	
SOC 202, Principles of Sociology — 3		MA 202, Calculus III — 4	
MS 201, Military Science II		PY 212, Physics — 4	
or		MS 202, Military Science II	
AS 221, Air Science II — 1		or	
PE 201, Physical Education — 1		AS 222, Air Science II — 1	
PSY 200, Introduction to Psychology — 3		PE 202, Physical Education — 1	
	18	Electives — 3	
			17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 205, Economic Process — 3		CE 201, Surveying	
PS 201, The American Governmental System — 3		or	
PSY 304, Educational Psychology — 3		PY 223, Astronomy — 3	
Electives — 10		ED 344, Secondary Education — 2	
	19	English Elective — 3	
		**Electives — 10	
			18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 470, Methods of Teaching Math — 3		ED 420, Principles of Guidance — 2	
***ED 471, Student Teaching in Math — 6		MA 433, History of Math — 3	
ED 472, Developing and Selecting Teaching Materials in Math — 2		**Electives — 9	
PSY 476, Psychology of Adolescence — 2		English Elective — 3	
	13		17

* A minimum of 138 semester credits required for graduation. Beginning with the fall semester of 1965, MA 101 will not count toward graduation in mathematics education; however, MA 403 will be required.

** A minimum of 9 semester hour electives in mathematics. All electives must be selected with approval of adviser.

*** During the fall semester of the Senior year 10 weeks will be devoted to full-time off-campus work at an approved Student Teaching Center and approximately 6 weeks to concentrated courses.

Science Education Curriculum*Freshman Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ZO 103, General Zoology	4	ZO 205, Invertebrate Zoology	4
History Elective	3	MA 112, Analytic Geometry and	
MA 111, Algebra and Trigonometry ...	4	Calculus A	4
ENG 111, Composition	3	BO 103, General Botany	4
MS 101, Military Science I		ENG 112, Composition	3
or		MS 102, Military Science I	
AS 121, Air Science I	1	or	
PE 101, Physical Education	1	AS 122, Air Science I	1
		PE 102, Physical Education	1
	16		
			17

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
BO 301, General Morphology		MIG 120, Physical Geology	3
or		CH 103, General and Qualitative	
BO 403, Systematic Botany	3	Chemistry	4
CH 101, General Inorganic Chemistry ..	4	ED 203, Introduction to Teaching	2
PS 201, The American Govern-		ZO 213, Human Physiology	3
mental System	3	MS 202, Military Science II	
SOC 202, Principles of Sociology	3	or	
MS 201, Military Science II		AS 222, Air Science II	1
or		PE 202, Physical Education	1
AS 221, Air Science II	1	**Electives	3
PE 201, Physical Education	1		
**Elective	3		17
	18		

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 203, General and Organic		PSY 304, Educational Psychology	3
Chemistry	4	PY 212, Physics	4
EC 205, The Economic Process	3	**Electives	11
ED 344, Secondary Education	2		
PY 211, Physics	4		18
English Elective	3		
**Electives	3		
	19		

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ED 475, Methods of Teaching in		PY 223, Astronomy	3
Science	3	BO 312, General Bacteriology	4
***ED 476, Student Teaching in		ED 420, Principles of Guidance	2
Science	6	**Elective	6
ED 477, Developing and Selecting		English Elective	3
Teaching Materials in			
Science	2		18
PSY 476, Psychology of Adolescence ..	2		
	13		

* A minimum of 138 semester credits required for graduation.

** A minimum of 6 semester hour electives in one area of science. All electives must be selected with approval of adviser.

*** During the fall semester of the senior year 10 weeks will be devoted to full-time off-campus work at an approved Student Training Center and approximately 6 weeks to concentrated courses.

Department of Occupational Information and Guidance

Professor ROY N. ANDERSON, Head of the Department

Associate Professor:

CHARLES G. MOREHEAD

The Department of Occupational Information and Guidance has been training guidance and personnel workers for more than four decades. The first master's degree was awarded in 1926. The programs of graduate study are planned to develop a broad understanding of guidance and personnel services to be applied in various settings. It is most desirable for an applicant who wishes to specialize in guidance and personnel services to have had undergraduate course work in economics, education, psychology, sociology, or social work. Students accepted into the program are those who anticipate devoting full or part time to guidance and personnel work. Teachers, administrators and others who wish to increase their knowledge of guidance and personnel may enroll for courses as a graduate minor or for certification renewal.

Professional opportunities for placement in this field are on the increase. The department prepares students for positions as counselors in secondary schools, industrial education centers, colleges, community agencies; school or county guidance directors, rehabilitation counselors, employment counselors, placement interviewers, and personnel workers in higher education, business or industry, and State and Federal government agencies. The student may specialize in one of several areas depending upon his vocational goals.

The master's program includes a core of guidance and personnel courses to be selected according to the student's vocational goals. Students may select their minor from the following areas—economics, psychology, sociology and anthropology. The master's degree program of the department meets the requirements for the Counselor's Certificate issued by the North Carolina State Department of Public Instruction, as well as counselor certification in many other states.

The Department of Occupational Information and Guidance has had a contract with the Office of Vocational Rehabilitation for the training of rehabilitation counselors, and has been awarded four Counseling and Guidance Training Institutes under contract with the United States Office of Education as authorized by the National Defense Education Act of 1958.

The department also provides service courses in guidance and personnel for undergraduate students in the School of Education.

Department of Psychology

Professor HOWARD G. MILLER, *Head of the Department*

Professors:

KEY L. BARKLEY, HAROLD M. CORTER

Associate Professors:

NORMAN M. CHANSKY, JOHN O. COOK, J. CLYDE JOHNSON, SLATER E. NEWMAN, PAUL J. RUST

Assistant Professors:

EUGENE E. BERNARD, DONALD W. DREWES

Adjunct Assistant Professor:

GILBERT GOTTLIEB

Instructor:

JAMES B. GRIER

In general, the courses in psychology are designed to promote a broad understanding of behavior as a science and to cultivate the skills which may be useful in dealing with human beings in social, educational, industrial or other situations. The department, however, offers courses of interest to students in all schools of the College.

Graduate Study

Graduate work is offered in the Department of Psychology leading to the degree of Master of Science in Psychology with options in industrial psychology, experimental psychology and school psychology.

Department of Recreation and Park Administration

Professor THOMAS I. HINES, *Head of Department*

Associate Professor:

LATHAM L. MILLER

Assistant Professors:

CHARLES C. STOTT, ALBERT CRAWFORD

Instructor:

HERBERT BRANTLEY

The Department of Recreation and Park Administration provides training for students who plan to become recreation leaders in industry, municipalities, institutions and rural communities. The recreation profession recognizes the importance of leaders who possess the competence needed to plan and supervise effective recreation programs. Competent leadership is the major factor affecting the scope, intensity and success of a program of organized recreation.

All students pursue the same program for the first year after which they declare an option (employee, public, institutional recreation or park administration) and take courses designed to meet the needs in their respective area of interest.

Opportunities

The demand of properly trained recreation leadership has increased rapidly in recent years. The number of graduates has not been sufficient to meet the demand for recreation leaders.

Recreation and Park Administration Curriculum*Freshman Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 111, Composition _____	3	BO 103, General Botany _____	4
MA 111, Algebra and Trigonometry ____	4	ENG 112, Composition _____	3
RPA 152, Introduction to Recreation ____	3	MA 122, Mathematics of Finance and Elementary Statistics _____	4
ZO 103, General Zoology _____	4	RPA 153, Aquatic Program _____	2
MS 101, Military Science I or		SOC 202, Principles of Sociology _____	3
AS 121, Air Science I _____	1	MS 102, Military Science I or	
PE 101, Physical Education _____	1	AS 122, Air Science I _____	1
	<hr/> 16	PE 102, Physical Education _____	1
			<hr/> 18

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
BO 214, Dendrology I or		ZO 206, Vertebrate Zoology or	
ZO 212, Human Anatomy _____	3	ZO 213, Human Physiology _____	3
EC 205, The Economic Process _____	3	ENG 215, Prin. of News Writing _____	3
History Elective _____	3	PS 201, American Government System ____	3
RPA 201, Playground Leadership _____	3	PSY 200, Introduction to Psychology ____	3
RPA 255, Social Recreation _____	4	RPA 253, Principles of Physical Education _____	3
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II _____	1	AS 222, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
	<hr/> 18		<hr/> 17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 231, Basic Speaking Skills _____	3	HS 342, Landscape Gardening _____	3
RPA 333, First Aid and Safety _____	2	RPA 353, Camp Organization and Leadership _____	3
RPA 354, Personal and Community Hygiene _____	3	RPA 355, Sports in Recreation _____	4
SOC 301, Human Behavior _____	3	**Electives within Interest Area _____	3
**Electives within Interest Area _____	3	Free Electives _____	3
Free Electives _____	3		
	<hr/> 17		<hr/> 16

* A minimum of 139 semester credits required for graduation.

** At the end of the sophomore year, a student must select an area of special interest. At least 12 semester hours of course work must be taken from the list of elective courses in the interest area.

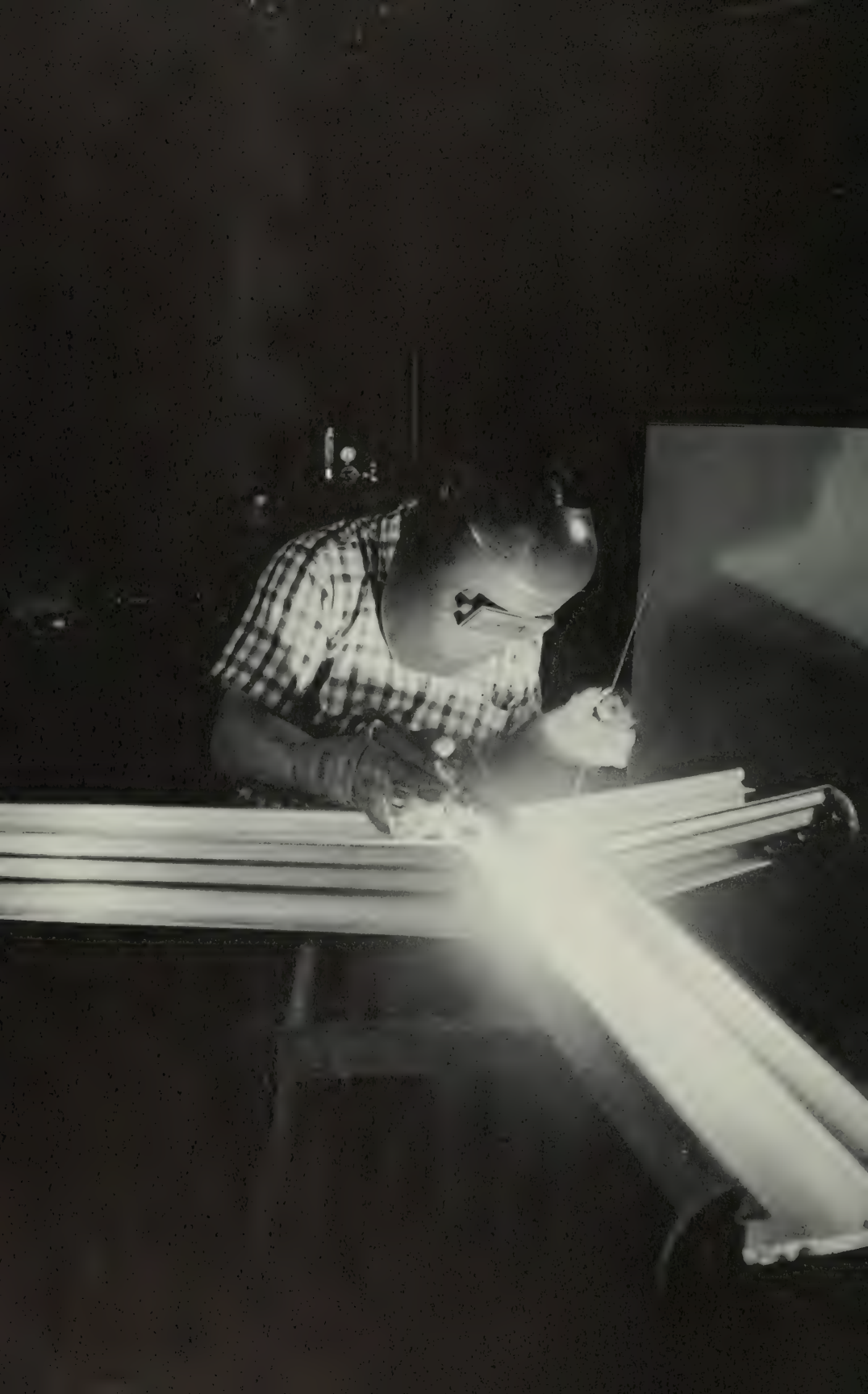
Summer Session (9 weeks)*Credits*

RPA 470, Supervised Practice 6

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
RPA 415, Park Maintenance and and Operation	3	RPA 451, Facility and Site Planning	3
RPA 471, Organizing the Recrea- tion Program	2	RPA 452, Recreation Administration ..	3
RPA 472, Observation and Field Experience	2	RPA 501, Special Problems in Recreation	3
SOC 416, Research Methods	3	*Electives within Interest Area	3
*Electives within Interest Area	3	Free Electives	3
Free Electives	3		<hr/> 15
	<hr/> 16		

* At the end of the sophomore year, a student must select an area of special interest. At least 12 semester hours of course work must be taken from the list of elective courses in the interest area. Field Work: Evidence of at least four months of satisfactory experience in the practice of his profession is required for graduation.



School Of Engineering

RALPH E. FADUM, Dean

ROBERT G. CARSON, Director of Instruction

W. E. ADAMS, Coordinator of Student Affairs

The engineer has the responsibility and the obligation to use all newly discovered knowledge in his field for the benefit of mankind. Today, a new sense of responsibility has been imposed upon the engineer, by the impact of science and technology.

Engineering studies are of the utmost interest and importance to those young men and women who look to industry, engineering education, or research for a career. These ambitions can well be furthered by the School of Engineering through its undergraduate or graduate programs, whereby students are offered technical instruction and leadership guidance by an experienced staff of qualified engineers and educators.

The School of Engineering is organized into nine engineering departments: Chemical, Civil, Electrical, Industrial, Mechanical, Mineral Industries, Nuclear, Mechanics, and Research. Undergraduate degree programs are offered in the first eight departments listed. All the teaching departments offer advanced studies leading to a professional degree or to the master's degree. The Doctor of Philosophy program is offered in ceramic, chemical, civil, electrical, mechanical and nuclear engineering.

It is the policy of the School of Engineering to have all its curricula more than meet the standards of the Engineers' Council for Professional Development. It is the ambition of the school that these curricula and programs meet the needs of the people and industries of the State and region through effective instruction, competent research and development, and worthwhile scientific contributions to engineering knowledge.

Curricula

The curricula representing the study program in all of the departments are so arranged that the freshman year is common to all. They contain broadening courses in the humanities while emphasizing the basic and fundamental engineering principles essential to an engineering college program. Graduates of this program will not only be prepared for engineering responsibilities and positions of trust in industry, but will also have an appreciation and consciousness of human problems in community and industrial life. Though an entering student is asked to designate a field of interest, he can with ease and without any interruption change to some other field of study within the School of Engineering at the end of the freshman year.

Four-Year Bachelor's Curricula

The four-year program provides education and training to meet the needs of from eighty to eighty-five per cent of the young men of North Carolina who will take their places in industry and industrial life in the fields of production, sales, application, planning and the operation of small industrial units.

Professional (Fifth Year) Study

The fifth-year specialized training leads to a professional degree (CE, CHE, ME, EE, and so forth) in ceramic, chemical, civil, electrical, geological, industrial, and mechanical engineering. The courses of study are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula.

Graduate Study

The graduate activities are patterned to provide advanced training and experience to young men who have successfully completed a four-year program and who have an interest and ability to continue their education. This elective program trains graduates for positions and activities in teaching, technical design, and research. The Engineering School offers two programs of graduate study. The first represents a year of full-time study and thesis work and leads to a degree of Master of Science in some field of engineering. The second program leads to a doctor's degree in some field of engineering and usually requires three years of full-time study, thesis work and experimental activity.

Research

Research activities in the School of Engineering are based on a program correlated with graduate study in engineering. It is the purpose of this program not only to train future research workers, but also to carry out a program that assures both sound investigations of a fundamental nature in engineering sciences and work devoted to greater uses of the State's natural resources. Through publications, cooperative activity with industry and the operation of our own investigational projects, it is intended that the engineering research activities will be a part of and work effectively with the industrial development of North Carolina.

Degrees

Bachelor of Science in Engineering

The four-year curricula offer programs of study leading to a bachelor's degree in agricultural, ceramic, chemical, civil, electrical, geological, industrial, mechanical, metallurgical, nuclear engineering and engineering mechanics. Aerospace engineering is an option in mechanical engineering, and construction engineering is an option in civil engineering. Graduation requirements are the satisfactory completion of all the re-

quired courses in any one curriculum and other courses which amount to a minimum of 146 semester credit hours. A minimum scholastic record of a C average is also required.

Specialized Degree

A specialized Bachelor of Science degree is also offered through a program of study in furniture manufacturing and management. The course is planned for four years of study. Graduation requirements are the satisfactory completion of all the required courses and other courses which amount to a minimum total of 146 semester credit hours. A minimum scholastic record of C average is also required.

Professional Degree in a Specialized Branch of Engineering

The professional degree in a specialized branch of engineering is an earned degree which can be obtained only after the bachelor's degree.

The fifth-year curricula are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula. This professional program of study is offered in ceramic, chemical, civil, electrical, geological, industrial, mechanical, and metallurgical engineering.

For further information concerning the requirements for the professional degree, applications for admission, etc., write to the dean of engineering at North Carolina State College, Raleigh, North Carolina.

Master of Science in a Specialized Branch of Engineering

The Master of Science in a specialized branch of engineering is an earned graduate degree which can be obtained only after the bachelor's degree. It requires at least one year of graduate work, a reading knowledge of at least one foreign language and a thesis showing ability to pursue independent research. The core of graduate courses taken must emphasize a scientific objective. Further information concerning the requirements for this degree may be obtained by writing the dean of the Graduate School at North Carolina State College, Raleigh, North Carolina.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is an earned graduate degree offered in ceramic, chemical, civil, electrical, mechanical, and nuclear engineering. Admission requirements are the same as for the master's degree. It requires at least two years of graduate work in one of these listed major programs and a minor either in some field of engineering or in an allied science. The dissertation will deal with some problem in the field of the student's major interest. Further information concerning the degree may be obtained from the dean of the Graduate School at North Carolina State College, Raleigh, North Carolina.

Short Courses and Institutes

The School of Engineering offers short courses and institutes both on the campus and at various centers throughout the State for adults and graduate engineers. Such courses vary in length from one day to twelve weeks; each year the courses offered are different and vary according to the public demand. The faculty of the School of Engineering usually furnish a large portion of the instruction offered in these courses, which in the past have been for electrical metermen, gas plant operators, safety engineers, radio engineers, refrigeration and air plumbing contractors and surveyors. Classes are usually held in Raleigh where the School of Engineering has an excellent staff and adequate laboratories and classroom facilities available.

These short courses offer real opportunity to practicing engineering personnel to follow a refresher program in their field of interest, as well as to become acquainted with the latest and most modern engineering procedures and equipment.

Another educational services activity is that being carried out at the Gaston Technical Institute, Gastonia, North Carolina, where a two-year post-high school terminal technician program is sponsored by the School of Engineering and operated by the Extension Division of the College. A separate full-time staff is employed for this educational program which provides an integrated curriculum in English, mathematics, engineering drawing, machine shop, welding, electrical maintenance, and economics. Graduates of this program are trained for industry with the opportunity for rapid acceleration towards positions as foremen, maintenance supervisors, etc.

Each of the engineering curricula is not only well-balanced, but offers a liberal course of study in a technical and professional field. Each conforms to what is regarded by engineering educators as the best modern practice.

* Freshman Year in All Engineering Curricula

Fall Semester	Credits	Spring Semester	Credits
CH 101, General Inorganic Chemistry	4	CH 103, General and Qualitative Chemistry	4
ENG 111, Composition	3	ENG 112, Composition	3
E 100, Introduction to Engineering	1	EC 205, The Economic Process	
MA 101, Algebra and Trigonometry	5	or	
ME 101, Engineering Graphics I	2	HI 205, The Modern Western World	3
*MS 101, Military Science I		**MA 102, Analytic Geometry	
or		and Calculus I	4
*AS 121, Air Science I	1	ME 102, Engineering Graphics II	2
*PE 101, Physical Education	1	*MS 102, Military Science I	
	17	or	
		*AS 122, Air Science I	1
		*PE 102, Physical Education	1

* Students excused from military science or air science and/or physical education will schedule equivalent credits in courses outside their department.

** To be eligible to roster courses taught by the School of Engineering above the freshman level, an engineering student must have earned a minimum grade of "C" on MA 102.

† Except the Department of Agricultural Engineering.

The sophomore, junior, and senior programs of study in the various fields of engineering are shown under the department headings on the pages that follow.

Humanities

Social Studies Programs for Engineering Students—A specially designed sequence of courses comprising 21 credit hours is required of all engineering students and is incorporated in each curriculum. Its primary objective is to broaden the student in the humanities and social sciences and to instill good habits in the use of the English language. Following a broad yet basic consideration of history, economics, and literature, the student progresses to an advanced and integrated study of contemporary civilization and of contemporary problems. The electives in the last year may be chosen from a group of approved courses which are built upon and closely related to the subject matter of the previous three years.

Freshman Year

<i>Spring Semester</i>	<i>Credits</i>
HI 205, The Modern Western World	
or	
EC 205, The Economic Process	3

*Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
HI 205, The Modern Western World		HI 205, The Modern Western World	
or		or	
ENG 205, Reading for Discovery		ENG 205, Reading for Discovery	
or		or	
EC 205, The Economic Process	3	EC 205, The Economic Process	3

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3

**Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
SS 491, Contemporary Issues I		SS 492, Contemporary Issues II	
or		or	
Approved Elective (see list below)	3	Approved Elective (see list below)	3

Senior Electives for Humanities—Social Studies Program

	<i>Credits</i>		<i>Credits</i>
SS 491, Contemporary Issues	3	SOC 401, Human Relations in Industrial Society	3
SS 492, Contemporary Issues II	3	PHI 395, Philosophy Analysis	3
HI 412, Recent United States History	3	EC 442, Evolution of Economic Ideas	3
ENG 468, Major American Writers	3	GN 301, Genetics in Human Affairs	3
PS 401, American Parties and Pressure Groups	3		

* History, economics, and literature may be scheduled in any order except that ENG 111, 112, Composition, are prerequisites for ENG 205. Only one course can be scheduled in a given semester without special permission.

** The student must take either SS 491, Contemporary Issues I, or SS 492, Contemporary Issues II. He must select an elective from the senior electives list for the other senior semester.

Courses from the approved list of senior electives will not be credited to the humanities sequence unless taken during the senior year.

Professional Program in Engineering

The School of Engineering offers fifth-year professional curricula leading to the degrees Ceramic Engineer, Civil Engineer, Chemical Engineer, Electrical Engineer, Geological Engineer, Industrial Engineer, Mechanical Engineer, and Metallurgical Engineer. These curricula are tailor-made to fit the particular needs of each student with a view that upon completion of a program the student will be prepared to pursue a professional career in engineering.

It is the intent of the fifth-year program to emphasize professional course work rather than research. To this end, a curriculum is comprised of 30 semester credits of course work requiring of the student a minimum of one academic year in residence. Neither a thesis nor a reading knowledge of a foreign language is required. Samples of curricula that meet the requirements of the fifth-year program may be found under the appropriate departmental curricula. These curricula are to be considered illustrative; the actual program of study will be especially designed to fit the needs of the individual student.

Admission

Applicants who hold the bachelor's degree in engineering from recognized colleges will be admitted to the professional program of the School of Engineering upon presentation of official credentials. For unconditional admission, these credentials must show the completion, with a minimum grade point average of 2.5 (C+), of an amount of undergraduate work in the proposed field of professional study corresponding to that normally required for a bachelor's degree in that field.

Admission on a provisional basis may be granted applicants who do not meet the formal requirements. In case of insufficient preparation, prerequisite courses will be prescribed in addition to the normal fifth-year course requirements.

Applications for admission, accompanied by full credentials in the form of transcripts of academic records, should be filed in the office of the dean of engineering at least 30 days in advance of the semester in which admission is sought.

General Regulations

The following regulations of the School of Engineering will be observed:

1. An undergraduate enrolled at North Carolina State College, who plans to undertake a professional program and who has fulfilled all requirements for the bachelor's degree except one or two courses, may be permitted to enroll in certain courses and later obtain credit toward the professional degree provided the student gives notice of his purpose to

the dean of the School of Engineering. The maximum credit to be obtained in this way is six semester course credits.

2. Credit for professional work to be applied toward the requirements for the professional degree, not to exceed six semester credits, may be transferred to North Carolina State College from recognized institutions of university grade offering advanced work in engineering and related fields. Such a transfer of credit must be recommended by the head of the department in which the student does his major work and it must be approved by the dean of the School of Engineering.

3. Fifth-year students are classified as post-baccalaureate students and are subject to rules and regulations as established and administered by the dean of the School of Engineering.

4. Grades for each completed course are reported to the dean of the School of Engineering and to the Office of Registration. A minimum grade of C must be made in each course to obtain credit. A quality point average of 2.5 (C+) in all course work must be attained to satisfy requirements for a professional degree.

5. Work completed more than six years prior to the date on which the professional degree is to be granted may not be used as credit toward the professional degree, unless approved by the head of the department concerned and the dean of the School of Engineering.

6. Each fifth-year student will be assigned to a committee consisting of his department head and the professor in charge of the work in which he is majoring. The function of this committee is to assist the student in preparing a program of study and to counsel him in his academic work. The student will be required, with the assistance of his committee, to prepare a complete plan of study before mid-semester of his first semester in residence. This program of study is subject to the approval of the dean of the School of Engineering.

Department of Agricultural Engineering

Professor F. J. HASSLER, Head of the Department

TEACHING AND RESEARCH

Professors:

H. D. BOWEN, J. M. FORE, W. E. SPLINTER, JAN VAN SCHILFGAARDE, JOHN W. WEAVER, JR.

Associate Professor:

EZRA L. HOWELL

Assistant Professors:

GEORGE B. BLUM, JR., W. H. JOHNSON, K. A. JORDAN, DAVID A. LINK, C. W. SUGGS

Instructors:

E. O. BEASLEY, J. F. BEEMAN, E. G. HUMPHRIES, EDWARD H. WISER, F. SCOTT WRIGHT

Head Mechanic:

RALPH B. GREENE

EXTENSION

Professor H. M. ELLIS, In Charge

Associate Professors:

J. C. FERGUSON, R. M. RITCHIE, W. C. WARRICK

Assistant Professor:

J. W. GLOVER

Instructor:

R. E. SNEED

Students in agricultural engineering are educated and trained to deal with the problems of agriculture that are engineering in nature. Involved are the application of scientific and engineering principles to the conservation and utilization of water and soil, the development of power and labor-saving devices for all phases of agricultural production, the design of structures and equipment for housing and handling livestock and field products, and the processing and marketing of farm products.

Undergraduate Curriculum

This curriculum, offered in conjunction with the School of Agriculture, is designed to develop young men capable of engineering leadership in agriculture. Emphasis is placed on basic science courses such as mathematics, physics, mechanics, biology, soils, and thermodynamics, which provide a sound background for engineering and agricultural technology. Courses in agricultural engineering are directed to those methods of thought and techniques whereby science can be applied with understanding and judgment to engineering situations in agricultural operations. General agriculture courses are provided in order that the student can better understand the agricultural industry with which he deals.

Since agricultural engineering involves two distinct technical fields—agriculture and engineering—this curriculum is a joint responsibility of the two schools and is so administered.

Facilities

The Department of Agricultural Engineering is housed in the Agricultural Engineering Building. This building, completed in 1960, embodies the most advanced facilities for education and research in the application of engineering to the production and processing of biological material for food and fiber. Included are offices, classrooms, laboratories, shop facilities, and space for the Agricultural Engineering Extension Service.

Opportunities

Men trained in agricultural engineering are qualified for positions in design, development and research in public institutions and in industry, and for teaching and extension work in institutions of higher education. The curriculum also provides adequate training for postgraduate work leading to advanced degrees. Graduates in this program receive the degree of Bachelor of Science in agricultural engineering.

Agricultural Engineering Curriculum**Freshman Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 111, Composition _____	3	ENG 112, Composition _____	3
MA 101, Algebra and Trigonometry ____	5	*MA 102, Analytic Geometry and Calculus I _____	4
ME 101, Engineering Graphics I _____	2	ME 102, Engineering Graphics II _____	2
AGE 151, Farm Mechanics _____	2	AGE 152, Farm Mechanics _____	2
AG 103, Introduction to Agriculture ____	1	CH 101, General Chemistry I _____	4
MS 101, Military Science I _____		MS 102, Military Science I _____	
or		or	
AS 121, Air Science I _____	1	AS 122, Air Science I _____	1
PE 101, Physical Education _____	1	PE 102, Physical Education _____	1
	<hr/> 15		<hr/> 17

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 103, General Chemistry II _____	4	EM 200, Introduction to Mechanics ____	3
AGE 211, Farm Power and Machinery _	3	CE 201, Surveying I _____	3
MA 201, Analytical Geometry and Calculus II _____	4	MA 202, Analytical Geometry and Calculus III _____	4
PY 201, General Physics I _____	5	PY 202, General Physics II _____	5
MS 201, Military Science II _____		MS 202, Military Science II _____	
or		or	
AS 221, Air Science II _____	1	AS 222, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
	<hr/> 18		<hr/> 17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 320, Elements of Electrical Engineering _____	4	BO 103, General Botany _____	4
EM 301, Solid Mechanics _____	3	EC 201, Economics _____	3
ENG 231, Basic Speaking Skills _____	3	EM 303, Fluid Mechanics I _____	3
SSC 200, Soils _____	4	ME 301, Engineering Thermo- dynamics I _____	3
English Elective _____	3	MA 301, Differential Equations _____	3
**Elective _____	3	**Elective _____	3
	<hr/> 20		<hr/> 19

* To be eligible to roster courses taught by the School of Engineering above the freshman level, an engineering student must have earned a minimum grade of "C" on MA 102.

** ST 361, Introduction to Statistics for Engineers, and PY 407, Introduction to Modern Physics, are recommended for electives.

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
AGE 451, Conditioning Principles for Plant and Animal Systems — 2		AGC 212, Economics of Agriculture or	
AGE 462, Farm Power and Machinery IIA — 4	4	AGC 551, Agricultural Production Economics — 3	3
AGE 491, Rural Electrification — 4	4	AGE 371, Soil and Water Conservation Engineering — 4	4
AGE 552, Instrumentation for Agricultural Research and Processing — 1	1	AGE 481, Agricultural Structures as Production Units — 4	4
PS 201, The American Governmental System — 3	3	AGE 452, Senior Seminar — 1	1
RS 301, Sociology of Rural Life — 3	3	HI 261, The U. S. in Western Civilization — 3	3
*Elective — 3	3	Humanities Elective — 3	3
	<hr/> 20	*Elective — 3	3
			<hr/> 21

Graduate Study

The Department of Agricultural Engineering offers advanced study leading to the Doctor of Philosophy degree in any one of five fields of specialization: power and machinery, rural structures, soil and water conservation, rural electrification, or agricultural processing.

The Master of Science program in agricultural engineering provides a broad background in science and engineering through advanced study in mathematics and physics.

For those interested primarily in existing technology, a program of study for the Master of Agricultural Engineering degree permits selections from a variety of advanced application courses. This program provides training appropriate for those engaged in the dissemination of information either as extension workers with public institutions or service representatives for industry. It is not intended as preliminary study to the Doctor of Philosophy degree.

Department of Chemical Engineering

Professor E. M. SCHOENBORN, Head of the Department

Reynolds Professor:

K. O. BEATTY, JR.

Professor:

JAMES K. FERRELL

Associate Professors:

R. BRIGHT, J. F. SEELY

Assistant Professors:

D. B. MARSLAND, E. P. STAHEL

Instructors:

T. M. GODBOLD, J. C. MCGEE

Chemical engineering is concerned with the design of processes, equipment and plants in which chemical and physical transformations of matter are carried out. Typical industries relying heavily upon chemical engineering

* ST 361, Introduction to Statistics for Engineers, and PY 407, Introduction to Modern Physics, are recommended for electives.

include those producing chemicals, polymers, metals, drugs, glass, food, gasoline, paper, soap and cement; those producing energy from nuclear fuels; and those processing materials by methods involving chemical reactions. The preparation of men qualified to pursue careers in such industries as these is the purpose of the curriculum in chemical engineering.

Curriculum

The work of the chemical engineer is extremely diversified and consequently his education must be along broad and basic lines. The spirit of research and experimentation is a vital part of the chemical industry and even those in the undergraduate curriculum need to acquire the sound scientific background essential to original thought and independent accomplishment. The undergraduate curriculum emphasizes the engineering, the chemical, and the economic principles involved in chemical processes and operations. The work in chemistry including inorganic, analytical, physical, and organic chemistry is comparable to that usually given to chemists in the first three years with the exception of a reduction of time devoted to laboratory work. The subjects in mechanical and electrical engineering, in mechanics and metallurgy are designed to supply the fundamentals of these branches. The work in the chemical engineering subjects, although distinctly professional in application, is nevertheless basic in character. Since it depends upon a thorough background in the sciences, it is postponed until the third and fourth years. It is designed to develop initiative, sound habits of thought and intellectual curiosity in the student.

Chemical engineers have played the biggest single role in the atomic energy field. The future of production of nuclear fuels, the operation and design of reactors, and the processing of irradiated materials present a multitude of chemical engineering problems. By judicious use of his electives, the student in chemical engineering may obtain specialized knowledge in the area of nuclear engineering.

Facilities

The Chemical Engineering Laboratories are provided with pilot plant-type equipment for studying the principles of fluid flow, heat transfer, distillation, absorption, drying, crushing and grinding, filtration, agitation, etc. Much new equipment has been installed, and new and special apparatus is added from time to time to keep the facilities abreast of recent developments in the field. Special equipment for research and instructional purposes is designed and built in the departmental laboratories. In this way students are given first hand acquaintance with problems relating to the actual design, construction, and operation of typical equipment used in industry.

Opportunities

Opportunities for employment in the chemical, atomic energy, and allied fields upon graduation are numerous and varied. Graduates find employ-

ment in such fields as research and development; production, operation, and maintenance; management and administration; inspection, testing, and process control; technical service and sales; estimation and specification writing; consulting and teaching, and many others. Students desiring to pursue careers in research and development or in teaching and consulting work are strongly advised to consider training. In fact, the need for persons who have had advanced training in the field beyond the regular four-year program is continually increasing.

Chemical Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CHE 205, Chemical Process Principles — 4		CHE 311, Introductory Chemical Engineering ———— 4	
*EC 205, The Economic Process or		*ENG 205, Reading for Discovery or	
ENG 205, Reading for Discovery ———— 3		EC 205, The Economic Process ———— 3	
MA 201, Analytical Geometry and Calculus II ———— 4		MA 202, Analytical Geometry and Calculus III ———— 4	
PY 201, General Physics ———— 5		PY 202, General Physics ———— 5	
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II ———— 1		AS 222, Air Science II ———— 1	
PE 201, Physical Education ———— 1		PE 202, Physical Education ———— 1	
	18		18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 215, Quantitative Analysis ———— 4		CH 532, Physical Chemistry ———— 3	
CH 531, Physical Chemistry ———— 3		CHE 412, Unit Operations II ———— 3	
CHE 411, Unit Operations I ———— 3		EE 320, Elements of Electrical Engineering ———— 4	
EM 341, Engineering Mechanics A ———— 2		EM 342, Engineering Mechanics B ———— 2	
SS 301, Contemporary Civilization ———— 3		EM 343, Strength of Materials A ———— 2	
Elective ———— 3		SS 302, Contemporary Civilization ———— 3	
	18	Elective ———— 3	
			20

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 425, Organic Chemistry ———— 3		CH 426, Organic Chemistry ———— 3	
CHE 415, Chemical Engineering Thermodynamics ———— 4		CHE 432, Unit Operations Lab II ———— 3	
CHE 431, Unit Operations Lab I ———— 3		CHE 525, Process Measurement and Control ———— 3	
CHE 460, Seminar ———— 1		MIM 321, Metallurgy ———— 3	
CHE 527, Chemical Process Engineering ———— 3		*SS 492, Contemporary Issues II or	
*SS 491, Contemporary Issues I or		Elective in Humanities ———— 3	
Elective in Humanities ———— 3		Elective ———— 3	
Elective ———— 3			18
	20		

* See page 131 for information concerning the Humanities Sequence.

Professional Curriculum (Typical Program)

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 401, Special Topics in Inorganic Chemistry	3	CHE 525, Process Measurement and Control	3
CHE 570, Chemical Engineering Projects	2	CHE 546, Chemical Reaction Rates	3
CHE 610, Heat Transfer I	3	CHE 570, Chemical Engineering Projects	2
CHE 660, Chemical Engineering Seminar	1	CHE 613, Distillation	3
PY 407, Introduction to Modern Physics	3	CHE 660, Chemical Engineering Seminar	1
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

Graduate Study

Regulations governing the professional program are shown on pages 132 and 133.

Graduate work is offered in chemical engineering leading to the degrees of Master of Science and Doctor of Philosophy in chemical engineering. Superior students who can do so are strongly encouraged to spend one or more years in advanced study and research since the demand of the chemical industry for persons with training beyond the baccalaureate is continually increasing.

The chemical engineering staff and research facilities provide unusual opportunities for basic and applied work in such important fields as fluid flow, heat transfer, distillation, diffusional operations, plastic technology. Of current interests are special programs in thermal properties of materials at both high and low temperatures, in process measurement and control, the use of radioactive tracers in chemical engineering research, and condensation in a centrifugal force field.

For general regulations, the Graduate School Catalog should be consulted.

Department of Civil Engineering

Professor C. R. BRAMER, Acting Head of the Department

Professors:

C. R. McCULLOUGH, CARROLL L. MANN, JR., C. SMALLWOOD, JR., M. E. UYANIK

Associate Professors:

R. H. BIGELOW*, P. D. CRIBBINS, J. W. HORN, PAUL ZIA

Assistant Professors:

MICHAEL AMEIN, E. P. BRANTLY, C. P. FISHER, DONALD McDONALD, H. E. WAHLS

Instructors:

N. C. COSTES, G. N. OWEN, JR., J. B. SHULER, OKTAY URAL

Civil engineering is one of the broadest of the various fields of engineering. It deals with the planning, design and construction of buildings, bridges, dams, harbor works, water works, water power facilities, sewage disposal works, nuclear waste facilities, missile launch facilities, and transportation facilities including highways, railways, waterways, airports, and

* On leave.

pipe lines. The civil engineer's services are in demand by public agencies as well as by private enterprise. The activities of the civil engineer are such that opportunities are available for office type as well as field-type employment and for employment in small communities as well as in large industrial centers. The breadth in scope of civil engineering and the variety of types of employment open to the civil engineer are such that a student who does not have a strong predilection for some special branch of engineering may be safely advised to study civil engineering.

Objectives

It is the primary mission of the Civil Engineering Department to offer programs of study designed to provide adequate academic preparation to those contemplating a career in the civil engineering profession. To this end, course work at both the baccalaureate and graduate levels is offered. The undergraduate program is designed to provide a sound general education and at the same time to prepare the student for advanced study in engineering either by the continuation of formal education at the graduate level or by self-study.

Facilities

The Department of Civil Engineering is located in Mann Hall. This building provides offices, drafting rooms, and classrooms, as well as laboratory facilities for testing structural materials, soils and bituminous products; for hydraulic experiments; for studies in airphoto interpretation and photogrammetry; for analysis of structural models; for chemical and biological tests pertaining to sanitary engineering; and for the investigation of transportation problems. In addition, the facilities of Mann Hall include a student study room, an auditorium and a departmental library. All of these facilities have been designed to provide for effective teaching and laboratory instruction and to create a scholarly environment.

Undergraduate Curriculum

The Department of Civil Engineering offers two four-year undergraduate curricula: the one, leading to the degree of Bachelor of Science in civil engineering; the other, to the degree of Bachelor of Science in civil engineering, construction option.

The civil engineering curriculum has been accredited by the Engineers' Council for Professional Development. It is a well-balanced program of study providing academic discipline in the pure and applied physical sciences, the humanities and social sciences, and the professional aspects of civil engineering including structural, transportation, and sanitary engineering, and soil mechanics and foundations.

Civil Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 201, Surveying I	3	CE 202, Surveying II	3
MA 201, Analytical Geometry and Calculus II	4	EM 200, Introduction to Mechanics	3
PY 201, General Physics	5	MA 202, Analytical Geometry and Calculus III	4
*EC 205, The Economic Process or		PY 202, General Physics	5
ENG 205, Reading for Discovery	3	*ENG 205, Reading for Discovery or	
MS 201, Military Science II or		EC 205, The Economic Process	3
AS 221, Air Science II	1	MS 202, Military Science II or	
PE 201, Physical Education	1	AS 222, Air Science II	1
	<hr/> 17	PE 202, Physical Education	1
			<hr/> 20

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 305, Transportation Engineering I	3	CE 306, Transportation Engineering II	3
CE 321, Materials Testing Lab I	2	CE 322, Materials Testing Lab II	2
CE 382, Hydraulics	3	CE 324, Structural Analysis I	3
EM 301, Solid Mechanics I	3	EM 302, Solid Mechanics II	3
MA 301, Differential Equations I	3	ME 301, Engineering Thermo- dynamics I	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
Elective	3	Elective	3
	<hr/> 20		<hr/> 20

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 425, Structural Analysis II	3	CE 428, Structural Design II	3
CE 427, Structural Design I	4	CE 482, Water and Sewage Works	3
CE 442, Soil Mechanics	3	CE 493, Professional Practice II	1
CE 481, Hydrology and Drainage	2	EE 320, Elements of Electrical Engineering	4
CE 492, Professional Practice I	1	*SS 492, Contemporary Issues II or	
*SS 491, Contemporary Issues I or		Elective in Humanities	3
Elective in Humanities	3	Elective	3
Elective	3		<hr/> 17
	<hr/> 19		

CONSTRUCTION OPTION

Professor CARROLL L. MANN, JR., *In Charge*

The curriculum in civil engineering construction option is designed to suit the needs of students who are especially interested in the construction phases of civil engineering. It includes the core course requirements

* See page 131 for information about the Humanities Sequence.

in the physical sciences and the social sciences and humanities as established for all engineering curricula offered at North Carolina State College. It differs from the civil engineering curriculum in that special emphasis is given to the construction aspects of civil engineering. To this end the curriculum includes a four-semester sequence of courses in estimates and costs and construction planning and organization. The courses unique to this curriculum are designed to provide academic discipline in the engineering, planning, and management aspects of construction.

Construction Option Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 201, Surveying I	3	CE 202, Surveying II	3
MA 201, Analytical Geometry and Calculus II	4	EM 200, Introduction to Mechanics	3
PY 201, General Physics	5	MA 202, Analytical Geometry and Calculus III	4
*EC 205, The Economic Process or		PY 202, General Physics	5
ENG 205, Reading for Discovery	3	*ENG 205, Reading for Discovery or	
MS 201, Military Science II or		EC 205, The Economic Process	3
AS 221, Air Science II	1	MS 202, Military Science II or	
PE 201, Physical Education	1	AS 222, Air Science II	1
	17	PE 202, Physical Education	1
			20

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 321, Materials Testing Laboratory I	2	CE 322, Materials Testing Laboratory II	2
CE 361, Estimates and Costs I	3	CE 324, Structural Analysis I	3
EC 312, Accounting for Engineers	3	CE 362, Estimates and Costs II	3
EE 320, Elements of Electrical Engineering	4	EM 302, Solid Mechanics II	3
EM 301, Solid Mechanics I	3	ME 301, Engineering Thermo- dynamics I	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
Elective	3	Elective	3
	21		20

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 427, Structural Design I	4	CE 429, Structural Design III	3
CE 461, Project Planning and Control I	3	CE 443, Foundations	3
CE 485, Elements of Hydraulics and Hydrology	3	CE 462, Project Planning and Control II	3
CE 492, Professional Practice I	1	CE 464, Legal Aspects of Contracting	3
*SS 491, Contemporary Issues I or		*SS 492, Contemporary Issues II or	
Elective in Humanities	3	Elective in Humanities	3
Elective	3	Elective	3
	17		18

* See page 131 for information about the Humanities Sequence.

Professional Study in Civil Engineering

Fifth-year programs of study leading to the professional degree of Civil Engineer are offered in the following specialty fields: sanitary engineering, soil mechanics and foundation engineering, structural engineering and transportation engineering. The fifth-year curricula, which are made up of advanced course work, are offered as a continuation of the four-year undergraduate program and are designed for students who are desirous of becoming technically proficient in one of the specialty fields of civil engineering. The following curricula are illustrative of the fifth-year programs of study. It is to be understood, however, that a curriculum for a given student is designed in consultation with his adviser to suit his particular interests.

Regulations governing the professional program are shown on pages 132 and 133.

Sanitary Engineering Curriculum

Professional

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 571, Theory of Water and Sewage Treatment	3	CE 572, Unit Operations and Processes in Sanitary Engineering	3
CE 573, Analysis of Water and Sewage	3	CE 598, Civil Engineering Projects	2
CE 598, Civil Engineering Projects	2	CE 672, Advanced Water and Sewage Treatment	4
CE 671, Advanced Water Supply and Sewerage	4	Electives	6
Elective	3		
	<hr/>		<hr/>
	15		15

Soil Mechanics and Foundation Engineering Curriculum

Professional

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 525, Advanced Structural Analysis I	3	CE 524, Analysis and Design of Masonry Structures	3
CE 548, Engineering Properties of Soils I	3	CE 544, Foundation Engineering	3
CE 641, Advanced Soil Mechanics	3	CE 549, Engineering Properties of Soils II	3
MA 405, Introduction to Deter- minants and Matrices	3	CE 642, Advanced Soil Mechanics	3
Elective	3	Elective	3
	<hr/>		<hr/>
	15		15

Structural Engineering Curriculum**Professional**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 525, Advanced Structural Analysis I	3	CE 544, Foundation Engineering	3
CE 625, Advanced Structural Design I	3	CE 626, Advanced Structural Design II	3
EM 551, Advanced Strength of Materials	3	CE 526, Advanced Structural Analysis II	3
MA 405, Introduction to Determinants and Matrices	3	EM 602, Elastic Stability	3
Elective	3	Elective	3
	<hr/> 15		<hr/> 15

Transportation Engineering Curriculum**Professional**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 515, Transportation Operations	3	CE 601, Transportation Planning	3
CE 516, Transportation Design	3	CE 602, Advanced Transportation Design	3
CE 603, Airport Planning and Design	3	CE 604, Urban Transportation Planning	3
Electives	6	Electives	6
	<hr/> 15		<hr/> 15

Graduate Study in Civil Engineering

The graduate degrees offered by the Civil Engineering Department are the Master of Science in civil engineering and the Doctor of Philosophy. At North Carolina State College, facilities for research and graduate instruction are available in the areas of sanitary engineering, soil mechanics and foundation engineering, structural engineering and transportation engineering. For additional information concerning graduate study opportunities in civil engineering, the current issue of the Graduate School Catalog should be consulted.

Post-Baccalaureate Study in Civil Engineering Related to Other Fields**Transportation Engineering and City and Regional Planning**

There exists a growing need for the coordination of transportation facilities and land planning and for individuals with competence in both fields. To fulfill this need, an advanced program leading to a post-baccalaureate degree in engineering, majoring in transportation engineering, and to the degree of Master of Regional Planning is offered through the combined resources of the Department of Civil Engineering at North Carolina State College and the Department of City and Regional Planning at the University of North Carolina. Qualified students have the opportunity to schedule

their courses of instruction to enable them to qualify for both advanced degrees.

The program is designed for students who are desirous of becoming technically proficient in both the fields of transportation engineering and city and regional planning. The minimum residence requirements include two academic years plus a summer internship. The curriculum includes the major core courses for both the advanced transportation engineering program and the city and regional planning program, plus supplementary courses important to both endeavors and a thesis. A bachelor's degree in engineering, including a knowledge of transportation engineering, from an institution of recognized standing is required for admission to the program. Applicants who do not meet these requirements in full may submit their credentials for examination and consideration.

Further information concerning the joint program may be obtained from the Department of Civil Engineering at North Carolina State College or from the Department of City and Regional Planning at the University of North Carolina.

Water Supply and Waste Treatment

In recognition of the need by industry for personnel with training in water supply and the abatement of water pollution, the Civil Engineering Department suggests that students in the many curricula leading to positions in industry (food processing, textile chemistry, pulp and paper technology, chemical engineering, zoology and others) consider courses of instruction in sanitary engineering for advanced undergraduate electives, and minor sequences for advanced degrees. Among the courses appropriate for such students are the following: CE 482, Water and Sewage Works; CE 571, Theory of Water and Sewage Treatment; CE 573, Analysis of Water and Sewage; CE 673, Industrial Water Supply and Waste Disposal; and CE 674, Stream Sanitation.

Department of Electrical Engineering

Professor G. B. HOADLEY, Head of the Department

Professors:

W. J. BARCLAY, A. R. ECKELS, G. E. SCHAFER, W. D. STEVENSON, JR.

Associate Professors:

N. R. BELL, K. B. GLENN, A. J. GOETZE, E. G. MANNING, W. C. PETERSON, E. W. WINKLER

Assistant Professor:

F. L. THURSTONE

Instructors:

D. I. FAIRBANKS, P. B. JOHNSON, F. S. KEBLAWI, T. E. MCENALLY, P. N. MARINOS, J. PENG,
W. P. SEAGRAVES, T. B. SMILEY

The purpose of the undergraduate curriculum is to train young people, either for active work in a challenging and diversified field, or for further study on the graduate level. To achieve this a thorough grounding is given in engineering science, followed by a solid foundation in fundamental electrical theory, and by advanced subject matter of sufficient breadth to

insure adequate preparation for a dynamic profession. This background is essential for success, whether the particular field be automatic control, computers, communications, telemetering, electronics, the design of electrical equipment, the manufacture of electrical equipment, electric power production, the utilization of electric power, electronics in medicine, instrumentation or any other one of the vital fast developing fields using electricity either as muscles or as nerves.

Curriculum

The curriculum in electrical engineering includes comprehensive training in mathematics and physics—the fundamental sciences—and adequate training in allied branches of engineering. Most courses are accompanied by coordinated work in the laboratory and drill in the application of theory by means of carefully planned problems.

Each student has a choice of at least two out of eight senior elective courses in the department, and also has a choice of four courses from any of the offerings at State College. Near the end of the sophomore year, each student is asked to consider his electives and to plan a coordinated program of courses suited to his particular needs and interests.

Examinations are given each week to sophomore students in the electrical engineering course. In the junior year, examinations are given every three weeks, and in the senior year, they are given about every five weeks. This decreasing frequency of examinations is intended to encourage the student to assume more and more responsibility for the success of his own program.

Facilities

The Electrical Engineering Department is housed in Daniels Hall. In addition to offices and classrooms this building provides laboratories for the study of servomechanisms and control, electronics and communications, circuits, instrumentation, illumination, computers, and electrical machinery. There are also a student study room, a shop, and a number of research laboratories.

Also available to the student are the services of an IBM 650 computer for research.

Graduation Requirements

Requirements for graduation are passing grades in the courses listed in the electrical engineering curriculum, passing of 147 credit hours, a grade point average of 2.00 or better, demonstration of proficiency in written English, tested in the junior year. Students receiving D grades in both ENG 111 and ENG 112 will be required to repeat ENG 111.

Attendance at two professional electrical engineering society meetings of state-wide or larger scope, once in the spring of the junior year and once in the fall of the senior year, is required. Attendance at the three

subsection meetings is considered the equivalent of one state-wide meeting, in meeting this requirement.

Also a minimum of six continuous weeks of gainful employment is required. This employment may be as laborer, sub-professional, or professional assistant in any of the following fields: industrial manufacturing, repair service, or sales; industrial engineering or scientific research; engineering or architectural design and drafting; engineering exploration, surveying, or reconnaissance; construction of engineering works. Technical work while in military service or for a school does not satisfy this requirement.

The student is responsible for obtaining his employment and supplying satisfactory evidence thereof to the department. This evidence will consist of a letter from the employer to the head of the department setting forth inclusive dates of employment; character of work performed; and an evaluation of the student's work.

Student Activities

Close coordination with the work of the professional electrical engineering societies is maintained through the AIEE-IRE Joint Student Branch which meets twice a month. Faculty advisers assist the students in bringing to these meetings practicing engineers. The Joint Student Branch also sponsors departmental activities such as picnics for new students and departmental participation in the Engineers' Fair.

An active chapter of Eta Kappa Nu, the national honorary electrical engineering fraternity, undertakes numerous important projects in addition to holding two initiation banquets yearly.

Electrical Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
**EC 205, The Economic Process	3	**ENG 205, Reading for Discovery	3
EE 201, Elementary Circuits and Fields	4	EE 202, Elementary Circuits and Fields	4
MA 201, Analytic Geometry and Calculus II	4	MA 202, Analytic Geometry and Calculus III	4
PY 201, General Physics	5	PY 202, General Physics	5
*MS 201, Military Science II or		*MS 202, Military Science II or	
*AS 221, Air Science II	1	*AS 222, Air Science II	1
*PE 201, Physical Education	1	*PE 202, Physical Education	1
	18		18

* Students excused from military or air science and/or physical education will schedule equivalent credits outside their departments.

** See page 131 for information about the Humanities Sequence.

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 301, Intermediate Circuits and Fields	4	EE 302, Intermediate Circuits and Fields	3
EE 305, Electrical Machinery	4	EE 314, Electronics	4
EM 200, Introduction to Mechanics	3	EM 301, Mechanics I (Solids)	3
MA 301, Differential Equations	3	***PS and AM Elective	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
		Elective	3
	<hr/> 17		<hr/> 19

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 411, Electrical Engineering Senior Seminar	1	EE 402, Advanced Circuits and Fields	3
EE 401, Advanced Circuits and Fields	3	EM 321, Strength of Materials I	3
ME 301, Engineering Thermo-dynamics I	3	ME 303, Engineering Thermo-dynamics III	3
*Senior Humanities	3	*Senior Humanities	3
Departmental Elective	3	Departmental Elective	3
***PS and AM Elective	3	Elective	3
Elective	3		<hr/> 18
	<hr/> 19		

Professional Degree

A fifth, or professional, year of study is offered in electrical engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced course work leading to the degree of electrical engineer. Each student taking this fifth year work has his program of courses planned to meet his individual needs. Regulations governing the professional degree are shown on pages 132 and 133.

Graduate Study

The Department of Electrical Engineering offers the Master of Science and the Doctor of Philosophy degrees. Graduate work in electrical engineering at the first-year or master's level is limited to one or two areas of specialization. In the more advanced study for the doctorate a comprehensive understanding of all fields of electrical engineering is required, and specialization appears in the research problem undertaken.

Advanced courses of a general and fundamental nature, such as electric network synthesis and electromagnetic waves, are recommended for all graduate students in electrical engineering, and are required of those who plan to carry their advanced studies to the level of the doctorate. Minor sequences of study in advanced mathematics or physics are planned to fit the needs of individual students.

* See page 131 for information about the Humanities Sequence.

** To be chosen from MA 302, 401, 405, 511 or 522 or PY 407 or ST 361, PY 552.

*** To be chosen from MA 302, 401, 405, 511 or 522 or ST 361, PY 552.

Recipients of graduate degrees in electrical engineering at North Carolina State College are in continual demand. Alumni hold important positions in the research laboratories of industry, government, and universities, in the teaching profession, and in the administrative and engineering departments of manufacturing corporations, utility companies, and government agencies.

For further information concerning graduate study in electrical engineering, the current Graduate School Catalog should be consulted.

Department of Engineering Mechanics

Professor P. H. McDONALD, Head of the Department
Professor:

ADOLPHUS MITCHELL

Associate Professors:

M. H. CLAYTON, R. A. DOUGLAS, JOHN E. GRIFFITH

Visiting Associate Professor:

SHOU-LING WANG

Assistant Professors:

J. A. EDWARDS, J. P. LAMB, G. W. MIDDLETON

Instructors:

JAMES U. CROWDER, JR., JOE W. REECE*

In a large portion of the contemporary engineering world there is a distinct requirement for persons whose educational background encompasses concentrated study within the broad domain of engineering science, persons with the ability to analyze as well as synthesize across-the-board modern-age complexes. Such a diversified background—which demands vigorous preparation in those disciplines concerned with macroscopic as well as microscopic behavior of matter—is provided in the curriculum administered by the Department of Engineering Mechanics.

Graduates of this interdisciplinary engineering sciences program will discover wide vistas of professional opportunity including teaching, fundamental engineering research, and applied research-development. In addition, those who desire to pursue their formal education to the master and doctoral level will find that the engineering mechanics program provides a very sound foundation for graduate study in engineering.

Aside from its own undergraduate program the department fulfills an important service function in the engineering school as a whole by providing a core of fundamental courses—in solid and fluid mechanics—for other undergraduate engineering curricula.

On the graduate level the department offers a full slate of courses covering the basic principles of generalized continuum mechanics along with the more specialized areas of solid and fluid mechanics. These courses have been designed to be useful to those who desire to concentrate in mechanics as well as those whose primary field of study requires a rigorous background in some phase of mechanics.

* On leave

Curriculum

The undergraduate program in engineering mechanics provides concentration in solid and fluid mechanics, microscopic behavior of materials, thermodynamics and transport phenomena, electric-magnetic circuits and fields in addition to a foundation of classical and modern physics, mathematics, chemistry, and humanities-social studies.

In the senior year these diverse studies are brought to bear on typical contemporary engineering systems in which interactions of many physical phenomena must be considered. Senior elective sequences in space mechanics and systems analysis-synthesis are also available.

Facilities

The Engineering Mechanics Department is housed in Riddick Laboratories Building. The department's laboratories include instruments and apparatus for studying the prime variables of mechanics and the phenomena in which they occur. Special emphasis is placed on the theory of transducers and sensors such as accelerometers, hot wire anemometer, load cells, pressure probes, electric resistance gages, and the associated recording apparatus. Equipment is available to analyze the behavior of gyroscopes, the stress and strain optic tensors, yielding experiments, and the propagation of wave motion in solids; streamline patterns, pressure distributions, shock wave configurations, and boundary layer profiles.

*Engineering Mechanics Curriculum

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, General Inorganic Chemistry ..	4	CH 103, General and Qualitative Chemistry	4
HI 205, The Modern Western World ..	3	ENG 112, Composition	3
ENG 111, Composition	3	MA 201, Analytic Geometry and Calculus II	4
E 100, Introduction to Engineering ..	1	PY 201, General Physics	5
MA 102, Analytic Geometry and Calculus I	4	MS 102, Military Science I or	1
ME 102, Engineering Graphics II	2	AS 122, Air Science I	1
MS 101, Military Science I or		PE 102, Physical Education	1
AS 121, Air Science I	1		
PE 101, Physical Education	1		
	<hr/> 19		<hr/> 18

* This curriculum is effective beginning September, 1963. Prior to then, the curriculum will employ a transitional freshman year in common with all engineering curricula as found on page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 201, Elementary Circuits and Fields	4	EE 202, Elementary Circuits and Fields	4
ENG 205, Reading for Discovery	3	EC 205, The Economic Process	3
MA 202, Analytic Geometry and Calculus III	4	MA 301, Differential Equations	3
PY 202, General Physics	5	MIM 201, Structure and Properties of Engineering Materials	3
MS 201, Military Science II or		EM 200, Introduction to Mechanics	3
AS 221, Air Science II	1	MS 202, Military Science II or	
PE 201, Physical Education	1	AS 222, Air Science II	1
	<hr/> 18	PE 202, Physical Education	1
			<hr/> 18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 414, Electronics	3	EM 302, Solid Mechanics II	3
EM 301, Solid Mechanics I	3	EM 304, Fluid Mechanics II	3
EM 303, Fluid Mechanics I	3	MA 511, Advanced Calculus I or	
MA 405, Introduction to Determi- nants and Matrices	3	ST 361, Statistics for Engineers	3
ME 301, Engineering Thermo- dynamics I	3	ME 302, Engineering Thermo- dynamics II	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
	<hr/> 18	Elective	3
			<hr/> 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EM 401, Experimental Mechanics I	3	EM 402, Experimental Mechanics II	3
Curricula Elective (Mechanics)	3	Curricula Elective (Mechanics)	3
MA 512, Advanced Calculus II or		SS 491, Contemporary Issues	3
ST 362, Statistics for Engineers	3	Electives	6
ME 502, Heat Transfer	3		<hr/> 15
Elective	3		
	<hr/> 15		

Graduate Study

The Department of Engineering Mechanics offers graduate studies leading to the degree of Master of Science.

Studies in mechanics at the graduate level normally will include initial courses in the areas of both solids and fluids to augment contemporary offerings in continuum mechanics. These courses provide a background suitable for subsequent specialization in such fields as elasticity, plasticity, or vibrations in solid mechanics; ideal viscous, or compressible fluid flow; as well as in the more generalized behavior of matter encountered in the study of rheology.

Recipients of advanced degrees in mechanics are in demand for research and development endeavors in the engineering field, in the establishments of both private industry and government. Increasing numbers of these men are choosing the opportunities afforded as members of the faculties of engineering schools and colleges.

Department of Engineering Research

N. W. CONNER, Director

Research Professors:

R. F. STOOPS, H. H. STADELMAIER

Research Associate Professors:

F. M. RICHARDSON, HAYNE PALMOUR III

Research Associates:

K. R. BROSE, S. W. DERBYSHIRE, A. E. LUCIER

Visiting Research Associate:

J. D. SCHOBEL

Research Assistants:

A. C. FRAKER, J. V. HAMME, G. E. SCOTT, R. B. MOFFITT, J. SINGLETARY, JR., ERNEST HARRISON, JR.

INDUSTRIAL EXTENSION SERVICE

Research Professor and Head:

W. C. BELL

Research Engineers:

J. R. OGBURN, W. G. YAMAMOTO

Research Associates:

S. D. COWARD, L. B. MCGEE, J. R. HART

Chemical Engineer:

J. A. MACON

Industrial Specialist:

F. L. EARGLE

MINERALS RESEARCH LABORATORY

Chief Engineer:

W. T. MCDANIEL

Ore Dressing Engineers:

I. REDEKER, T. J. WRIGHT

Chemical Engineer:

P. N. SALES

The Department of Engineering Research gives strong support and encouragement to the many research programs conducted within the School of Engineering. The establishment and maintenance of the top-rate Department of Engineering Research is a true sign that the College and the School of Engineering are fully aware of the contributions research makes to effective teaching.

The School of Engineering, a part of North Carolina's Land-Grant College, serves the industrial life of the State by offering a broad program of service and experimental aid through its Department of Engineering Research. Many State industries bring problems to the school and the association between the department and the State industries is being strengthened constantly. The department's service is further strengthened through its close cooperation with the North Carolina Department of Conservation and Development. Particular encouragement and assistance are granted investigations that give promise to new North Carolina industry.

Facilities

The Department of Engineering Research, established originally in 1923 as the Engineering Experiment Station, maintains laboratories and a fulltime staff which devotes its time exclusively to experimental work. The department's operations are carried out in close cooperation with the administration and faculties of the teaching departments. The abilities of the various departments of engineering are combined through the department so that the complete research capacity of the School of Engineering is available for experimental work in any field. The department also acts as the administrator for the school in negotiations involving research programs done for private industry and for governmental agencies.

The Minerals Research Laboratory in Asheville is engaged in the expansion of North Carolina mineral production through facilities for the development of improved processes of mineral concentration, or examination and appraisal, and chemical analysis.

The Industrial Extension Service was created by the 1955 General Assembly. Its objective is to provide technical assistance to the State's small industry and to promote utilization of its natural resources.

Research Programs

The research capacity of the nation is being used for national security. Research facilities of colleges and universities are utilized for defense work. The School of Engineering at North Carolina State College is playing a leading roll in the area of national security. Several research programs sponsored by the government agencies have been in progress for several years; the school's capacity for expanded service is large.

Research in progress includes work being done for the Air Material Command of the U. S. Air Force, the Office of Ordnance Research, the Bureau of Ships, the Wright Air Development Center, Redstone Arsenal, and the Texas Company. Work is included in the fields of structural clay products, radiant heating, stress analysis, rotational speed deviation measurements, tannin extraction, recovery from fish waste, erosion of plastics, fuel oils, precipitation hardening and diffusion in alloys and electronics.

Upon their conclusions, results of the engineering investigations are published as bulletins so that the information obtained is available to the public and is contributed to the total field of technical knowledge. A complete list of the bulletins published to date or any other information pertaining to the operation or availability of the facilities of the department will be furnished upon request.

Research Fellowships

To assure wider benefits for both graduate and undergraduate students from the engineering research activities, the department offers several research fellowships and employs some of the more promising and deserving students as assistants in the laboratory on a part-time basis.

Department of Industrial Engineering

Professor CLIFTON A. ANDERSON, *Head of the Department*

Professors:

R. G. CARSON, JR., R. W. LLEWELLYN

Visiting Professor:

R. WILLARD

Assistant Professors:

*R. ALVAREZ, R. L. COPE, C. E. HUNTER

Instructors:

BIMAN DAS, *H. A. KNAPPENBERGER, A. L. PRAK, G. E. TUCKER, W. WOO

Industrial engineering is a relatively new branch of the engineering profession. It has seen its greatest growth beginning with the industrial expansion in the war years. As a college curriculum, industrial engineering is the result of a demand by industry for graduates who are trained in the fundamentals of engineering and who have acquired a knowledge of the principles involved in planning, operating, and controlling the operation of an industrial enterprise.

Curriculum

It is the industrial engineer's job to transform plans, specifications and blueprints into plant, equipment and personnel to create the product. He is concerned also with controls and plans for the profitable and continued operation of an existing plant.

The industrial engineering program at North Carolina State College has been planned with this viewpoint in mind. After the first year, which is common with all other branches of engineering, the curriculum includes subject matter in industrial organization and management, motion and time study, plant layout, quality control, job evaluation, accounting personnel and labor relations and production control together with other specialized courses which help develop a background and technique for understanding our modern industrial system.

The industrial engineering curriculum has been inspected and accredited by the Engineers' Council for Professional Development.

Graduation Requirements

A minimum of six weeks of continuous, gainful employment is required. This employment may be any level from laborer to supervisor. The work performed should be related to industrial activities concerned primarily with production and manufacturing, maintenance, or management control functions. The student assumes responsibility for obtaining his own employment and making arrangements with his employer to provide evidence thereof to the head the Industrial Engineering Department. A letter from the employer stating the extent and dates of employment, a description of work performed, and an evaluation of the student's performance is suitable evidence. In general the student should plan to take such employment between his junior and senior years.

* On leave

Student Activities

Student organizations within the department include a chapter of the American Institute of Industrial Engineers. This student function has demonstrated its calibre by ranking high in the Annual Student Award every year in competition with the AIIE chapters at other institutions. Departmental and student activities of a professional and a social character are sponsored by the organization.

An active chapter of Alpha Pi Mu, the industrial engineering honor society, gives recognition to the outstanding students in the junior and senior classes. The membership annually undertakes projects of value to industrial engineering students and the department.

Industrial Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
*HI 205, The Modern Western World		*ENG 205, Reading for Discovery	
or		or	
ENG 205, Reading for Discovery	3	HI 205, Modern Western World	3
IE 201, Industrial Engineering I	3	IE 202, Industrial Engineering II	3
IE 217, Machine Tools	1	MA 202, Analytical Geometry and	
IE 218, Metal Forming	1	Calculus III	4
MA 201, Analytical Geometry and		PY 202, General Physics	5
Calculus II	4	PSY 200, Introduction to Psychology	3
PY 201, General Physics	5	MS 202, Military Science II	
MS 201, Military Science II		or	
or		AS 222, Air Science II	1
AS 221, Air Science II	1	PE 202, Physical Education	1
PE 201, Physical Education	1		20
	19		

**Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 312, Accounting for Engineers	3	EM 342, Mechanics B (Dynamics)	2
EM 341, Mechanics A (Statics)	2	IE 303, Industrial Engineering IV	4
IE 303, Industrial Engineering III	4	***MA 405, Introduction to Determi-	
MA 301, Differential Equations I	3	nants and Matrices	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
ST 361, Statistics for Engineers	3	***ST 362, Statistics for Engineers	3
Elective	3	Elective	3
	21		18

* See page 131 for information about the Humanities Sequence.

** Proficiency in written expression to be demonstrated at the beginning of the junior year. Students who fail this test are required to take additional work in the English Department as recommended by the Industrial Engineering Department head.

*** At the end of the sophomore year, students in the Industrial Engineering curriculum will be permitted to choose between two sequences of four courses each in their junior and senior years. The sequences are (1) Math 405, ST 362, IE 401, and IE 402; and (2) MIM 201, IE 350, IE 404, IE 515. The first sequence is designed to emphasize mathematical techniques in management decision making. The second series emphasizes work relating to production and manufacturing engineering. More active participation in the technical aspects of planning, tooling, and improving manufacturing operations will be expected from graduates who take the latter sequence. At least one of the above sequences must be completed to fulfill graduation requirements.

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 331, Principles of Electrical Engineering	4	EE 332, Principles of Electrical Engineering	4
EM 343, Strength of Materials A	2	**IE 402, Industrial Engineering Analysis	3
**IE 401, Industrial Engineering Analysis	3	*SS 492, Contemporary Issues II or	
IE 451, Seminar	1	Humanities Elective	3
ME 301, Engineering Thermodynamics ..	3	Technical Elective	3
*SS 491, Contemporary Issues I		Elective	3
or			
Humanities Elective	3		
Elective	3		
	<hr/>		<hr/>
	19		16

Professional Study

A fifth, or professional year of study is offered in industrial engineering by means of specialized and advanced course work. A student may elect a speciality area in consultation with his adviser and then develop a program of study which suits his interests. A student may specialize in production engineering, in decision-making processes as related to industrial engineering, or in administrative engineering. Typical programs in each of these areas are presented below. This fifth year of study leads to the professional degree in industrial engineering. Regulations concerning the professional program are shown on pages 132 and 133.

Production Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
IE 515, Process Engineering	3	IE 404, Introduction to Tool Engineering	3
IE 517, Automatic Processes	3	IE 543, Standard Data	3
ST 515, Experimental Statistics for Engineers	4	IE 546, Advanced Quality Control	3
Elective	3	IE 581, Project Work	3
IE 581, Project Work	2	ST 516, Experimental Statistics for Engineers	3
	<hr/>		<hr/>
	15		15

* See page 131 for information about the Humanities Sequence.

** At the end of the sophomore year, students in the Industrial Engineering curriculum will be permitted to choose between two sequences of four courses each in their junior and senior years. The sequences are (1) Math 405, ST 362, IE 401, and IE 402 and (2) MIM 201, IE 350, IE 404, IE 515. The first sequence is designed to emphasize mathematical techniques in management decision making. The second series emphasizes work relating to production and manufacturing engineering. More active participation in the technical aspects of planning, tooling, and improving manufacturing operations will be expected from graduates who take the latter sequence. At least one of the above sequences must be completed to fulfill graduation requirements.

Industrial Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
IE 521, Control Systems and Data Processing	3	IE 546, Advanced Quality Control	3
IE 651, Special Studies in Industrial Engineering	3	IE 621, Inventory Control Methods	3
ST 515, Experimental Statistics for Engineers	4	IE 651, Special Studies in Industrial Engineering	3
Electives	5	ST 516, Experimental Statistics for Engineers	3
	<hr/> 15	Elective	3
			<hr/> 15

Administrative Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 504, Principles of Cost Accounting ..	3	EC 505, Principles of Cost Accounting ..	3
EC 525, Management Policy and Decision Making	3	IE 531, Quantitative Job Evaluation Methods	3
EC 531, Management of Industrial Relations	3	IE 546, Advanced Quality Control	3
ST 515, Experimental Statistics for Engineers	3	IE 551, Standard Costs for Manufacturing	3
Elective	3	ST 516, Experimental Statistics for Engineers	3
	<hr/> 15		<hr/> 15

Graduate Study

For general regulations, the Graduate School Catalog should be consulted. Graduate work is offered in industrial engineering leading to the degree of Master of Science in industrial engineering.

FURNITURE MANUFACTURING AND MANAGEMENT

Any curriculum in the School of Engineering has as an aim the preparation of men capable of handling the technical problems arising in the jobs which they undertake. Where industry is already equipped with qualified engineers, the new employee with a basic engineering education can be given on-the-job training in analyzing and solving the special problems peculiar to the particular plant or industry.

In the case of the furniture industry, practically no experienced engineers exist. To be of service, the College must emphasize to a greater extent the application of engineering principles to the problems of the furniture industry. This can be done effectively only if the instructional staff is aware of the problems of the industry from direct contact and not merely from the academic discussion and the available literature. Consequently, the program has been worked out in conjunction with representatives of the manufacturers. Their viewpoint is based on a survey made among the entire membership of the Southern Furniture Manufacturers' Association. Results of the survey indicate an overwhelming interest in college training to prepare men for work in this industry.

Curriculum

It is the purpose of the curriculum offering the degree of Bachelor of Science in furniture manufacturing to prepare graduates for technical and, eventually, executive positions in the furniture industry. The curriculum emphasizes the application of engineering to furniture manufacturing. Related subjects covering management, labor relations, accounting, marketing and sales stress the technical as well as the human side of modern production methods and techniques.

Graduation Requirements

A minimum of six weeks of continuous, gainful employment is required. This employment may be at any level from laborer to supervisor. The work performed should be related to industrial activities concerned primarily with production and manufacturing, maintenance, or management control functions in a furniture manufacturing plant. The student assumes responsibility for obtaining his own employment and making arrangements with his employer to provide evidence thereof to the head of the Industrial Engineering Department or the professor in charge of the Furniture Manufacturing and Management curriculum. A letter from the employer stating the extent and dates of employment, a description of work performed, and an evaluation of the student's performance is suitable evidence. In general the student should plan to take such employment between his junior and senior years.

Student Activities

The Industrial Engineering Department sponsors the Furniture Club, which is operated by the students. All students in the curriculum are eligible for membership in the organization. The club brings in speakers from industry and holds social gatherings for the students.

Furniture Manufacturing and Management Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 231, Basic Speaking Skills	3	ENG 205, Reading for Discovery	3
HI 205, The Modern Western World	3	IA 203, Technical Sketching	2
PH 201, Logic	3	FOR 201, Wood Properties	3
PSY 200, Introduction to Psychology	3	IE 224, Wood Working Equipment	3
PY 211, General Physics	4	PY 212, General Physics	4
MS 201, Military Science II		MS 202, Military Science II	
or		or	
AS 211, Air Science II	1	AS 222, Air Science II	1
PE 201, Physical Education	1	PE 202, Physical Education	1
	<hr/> 18		<hr/> 17

Summer Practicum

FOR 205-s, 206-s, 207-s, 208-s, 209-s

***Junior Year**

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
FOR 301, Wood Processes I	4	EC 312, Accounting for Engineers	3
IE 322, Furniture Design and Construction	2	IE 301, Engineering Economy	3
IE 332, Motion and Time Study	4	IE 326, Furniture Manufacturing and Processing	4
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
Electives	3	TX 271, Upholstery Fabrics	2
		Electives	3
	16		18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
IE 341, Furniture Plant Layout and Design	3	EC 432, Industrial Relations	3
IE 420, Manufacturing Controls	3	IE 443, Quality Control	3
IE 451, Seminar	1	IE 452, Seminar	1
**SS 491, Contemporary Issues I	3	Technical Elective	3
ST 361, Introduction to Statistics for Engineers	3	Humanities Elective	3
Elective	3	Elective	3
	16		16

Department of Mechanical Engineering*Professor R. W. TRUITT, Head of the Department**Professors:*

N. W. CONNER, J. S. DOOLITTLE, K. P. HANSON, H. A. HASSAN, R. B. KNIGHT, R. M. PINKERTON, J. WOODBURN

Associate Professors:

W. E. ADAMS, M. R. EL-SADEN, B. H. GARCIA, R. S. LEE, F. O. SMETANA, J. K. WHITFIELD***, J. C. WILLIAMS III, J. T. YEN, C. F. ZOROWSKI

Assistant Professor:

T. B. LEDBETTER

Instructors:

R. F. BARRETT, D. G. BASSETT, N. M. BEATTY, T. CEBECI, K. R. CRUMP, A. H. ERASLAN, J. MANZO, P. S. NYE, L. J. PAVAGADHI, C. S. RUDISILL, E. H. STINSON, C. O. TAYLOR, B. D. WEBB

Engineers are motivated by a desire to satisfy human needs through the application of scientific principles in such a manner as to place the fruits of their work within the economic reach of vast segments of humanity. To identify and evaluate human needs, modern engineers must have a sound education in the basic sciences, mathematics, and the humanities. The gap between the discoveries of basic science and their application in the satisfaction of human needs is provided by an area of science known as the

* Proficiency in written expression to be demonstrated at the beginning of the junior year. Students who fail this test are required to take additional work in the English Department as recommended by the Industrial Engineering Department head.

** See page 131 for information about the Humanities Sequence.

*** On leave

engineering sciences. It is with education in the engineering sciences and the development of talent in applying the principles of the engineering sciences that departments of engineering are principally concerned.

Mechanical engineering covers a broad spectrum of engineering responsibility in such areas as nuclear and conventional power generation, missiles, rockets, jet engines, propulsion systems for land, sea, and air vehicles, refrigeration, air conditioning, combustion of fuels, instrumentation of industrial processes, solar energy, and the design of a wide variety of technical systems. Aerospace engineering shares responsibility with mechanical engineering for many of the areas described above but is principally concerned with the structural design and analysis of air and space vehicles and with the phenomena of air and space flight.

Because of the close relationship between mechanical and aerospace engineering, both curricula are administered by the Department of Mechanical Engineering at North Carolina State College. There is close cooperation between the faculties of the two disciplines in which responsibility for such engineering sciences as thermodynamics, heat transfer, mass transfer, gas dynamics, aeroelasticity, vibrations, lubrication, fluid mechanics, magnetohydrodynamics, aerodynamics, and instrumentation theory are shared.

In cooperation with other departments in the School of Engineering the Department of Mechanical Engineering is prepared to offer work leading to a degree in nuclear engineering. Particular emphasis in the work of this department is placed on nuclear power, reactor heat transfer and the dynamics of reactor fluids.

Curriculum

The curriculum in mechanical engineering is based on a firm foundation in mathematics, physics, chemistry, humanities and social sciences. The student's knowledge in the basic engineering sciences germane to mechanical engineering is carefully developed in the courses offered in this department and other departments of the School of Engineering. Finally, the curriculum provides an active experience in which the student's creative talents and imagination are challenged in several areas of application. This experience is gained through a choice of courses in the senior year and required courses in experimental mechanical engineering.

The curriculum in aerospace engineering is administered as an option in mechanical engineering. Generally speaking, the curricula in mechanical and aerospace engineering differ slightly in the first three years. The point of departure occurs in the fourth year where the emphasis in the aerospace engineering curriculum is placed on air and space structures and the aerodynamics of air and space vehicles.

The four-year undergraduate curricula in both mechanical and aerospace engineering prepares graduates who are equipped to profit from their experiences in the practice of engineering and to become early contributors in the solution of engineering problems of scientific and economic complexity. Both curricula offer a firm basis for further advanced study in graduate schools.

Mechanical Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
*ENG 205, Reading for Discovery or		EM 200, Introduction to Mechanics —	3
EC 205, The Economic Process	3	*EC 205, The Economic Process or	
IE 217, Machine Tools	1	ENG 205, Reading for Discovery	3
MA 201, Analytical Geometry and Calculus II	4	IE 218, Metal Forming	1
PY 201, General Physics I	5	MA 202, Analytical Geometry and Calculus III	4
MS 201, Military Science II or		PY 202, General Physics II	5
AS 221, Air Science II	1	MS 202, Military Science II or	
or		AS 222, Air Science II	1
PE 201, Physical Education	1	PE 202, Physical Education	1
Elective	3		
	<hr/> 18		<hr/> 18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EM 301, Solid Mechanics I	3	EM 303, Fluid Mechanics I	3
MA 301, Differential Equations I	3	ME 302, Engineering Thermo- dynamics II	3
ME 301, Engineering Thermodynamics I	3	ME 306, Mechanical Engineering Laboratory II	1
ME 305, Mechanical Engineering Laboratory I	1	ME 312, Dynamic Analysis	3
ME 311, Kinematics	3	SS 302, Contemporary Civilization	3
SS 301, Contemporary Civilization	3	Elective	5
Elective	3		
	<hr/> 19		<hr/> 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 331, Principles of Electrical Engineering	4	EE 332, Principles of Electrical Engineering	4
ME 401, Power Plants	3	ME 406, Mechanical Engineering Laboratory IV	1
ME 405, Mechanical Engineering Laboratory III	1	ME 412, Machine Design II	3
ME 411, Machine Design I	3	ME 502, Heat Transfer	3
ME 441, Technical Seminar	1	MIM 422, Metallurgy II	2
MIM 421, Metallurgy I	2	MIM 423, Metallurgy Laboratory	1
*SS 491, Contemporary Issues I or		*SS 492, Contemporary Issues II or	
Elective in Humanities	3	Elective in Humanities	3
Elective	3	Elective	3
	<hr/> 20		<hr/> 20

* See page 131 for information about the Humanities Sequence.

Aerospace Engineering Option Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
*ENG 205, Reading for Discovery or		EM 200, Introduction to Mechanics ____ 3	
EC 205, The Economic Process _____ 3		*EC 205, The Economic Process or	
IE 217, Machine Tools _____ 1		ENG 205, Reading for Discovery _____ 3	
MA 201, Analytical Geometry and Calculus II _____ 4		IE 218, Metal Forming _____ 1	
PY 201, General Physics I _____ 5		MA 202, Analytical Geometry and Calculus III _____ 4	
MS 201, Military Science II or		PY 202, General Physics II _____ 5	
AS 221, Air Science II _____ 1		MS 202, Military Science II or	
PE 201, Physical Education _____ 1		AS 222, Air Science II _____ 1	
Elective _____ 3		PE 202, Physical Education _____ 1	
	18		18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EM 301, Solid Mechanics _____ 3		ME 361, Aerospace Technology _____ 3	
MA 301, Differential Equations _____ 3		ME 302, Engineering Thermo- dynamics II _____ 3	
ME 301, Engineering Thermo- dynamics I _____ 3		ME 306, Mechanical Engineering Laboratory II _____ 1	
ME 305, Mechanical Engineering Laboratory I _____ 1		ME 352, Aerodynamics _____ 3	
ME 311, Kinematics _____ 3		SS 302, Contemporary Civilization ____ 3	
SS 301, Contemporary Civilization ____ 3		Elective _____ 6	
Elective _____ 3			19
	19		

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EE 320, Elements of Electrical Engineering _____ 4		ME 421, Aerospace Propulsion Systems _ 3	
ME 441, Technical Seminar _____ 1		ME 446, Performance of Hypervelocity Vehicles _____ 3	
ME 465, Aerospace Engineering Laboratory _____ 1		ME 466, Aerospace Engineering Laboratory _____ 1	
ME 469, Spacecraft Structures _____ 3		ME 472, Spacecraft Design _____ 3	
ME 471, Aircraft and Missile Design ____ 3		MIM 422, Metallurgy II _____ 2	
MIM 421, Metallurgy I _____ 2		MIM 423, Metallurgy Laboratory _____ 1	
*SS 491, Contemporary Issues I or		*SS 492, Contemporary Issues II or	
Elective in Humanities _____ 3		Elective in Humanities _____ 3	
Elective _____ 3		Elective _____ 3	
	20		19

* See page 131 for information about the Humanities Sequence.

Professional Study

A fifth, or professional year of study is offered in mechanical engineering for graduates who desire to return to the university for a program of concentrated study in a selected area. This program is intended primarily for practitioners and is, in no sense, a graduate program leading to the usual advanced degrees. The degree of mechanical engineer is conferred upon graduates of the fifth-year program. Typical programs are listed below.

Heat-Power

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ME 501, Steam and Gas Turbines	3	ME 521, Aerothermodynamics	3
ME 545, Project Work in Mechanical Engineering I	2	ME 546, Project Work in Mechanical Engineering II	2
ME 601, Advanced Engineering Thermodynamics I	3	ME 604, Nuclear Power Plants	3
ME 603, Advanced Power Plants	3	ME 642, Mechanical Engineering Seminar II	1
ME 641, Mechanical Engineering Seminar I	1	Approved Electives	6
Approved Elective	3		
	<hr/> 15		<hr/> 15

Design

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 411, Introduction to Applied Mathematics	3	EM 554, Vibration Problems	3
ME 515, Experimental Stress Analysis ..	3	ME 517, Lubrication	3
MIM 521, Advanced Physical Metallurgy I	3	MIM 522, Advanced Physical Metallurgy II	3
ME 545, Project Work in Mechanical Engineering I	2	ME 546, Project Work in Mechanical Engineering II	2
ME 611, Advanced Machine Design I ..	3	ME 612, Advanced Machine Design III ..	3
ME 641, Mechanical Engineering Seminar I	1	ME 642, Mechanical Engineering Seminar II	1
	<hr/> 15		<hr/> 15

Aerospace

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ME 453, Applied Aerodynamics	3	ME 502, Heat Transfer	3
ME 502, Heat Transfer	3	ME 554, Advanced Aerodynamic Theory	3
ME 552, Aircraft Applied Loads	3	ME 546, Project Work in Mechanical Engineering II ..	2
ME 545, Project Work in Mechanical Engineering I	2	ME 562, Advanced Aircraft Structures ..	3
ME 641, Mechanical Engineering Seminar I	1	ME 642, Mechanical Engineering Seminar II	1
Approved Elective	3	Approved Elective	3
	<hr/> 15		<hr/> 15

Graduate Study

The purpose of graduate study in mechanical engineering is to prepare students for a career in research, development, and teaching. Hence, in addition to advanced study, research is an essential part of the graduate program. At present the Department of Mechanical Engineering offers the Master of Science degree in mechanical and aerospace engineering and the Doctor of Philosophy degree in mechanical engineering. Since all graduate programs are administered by the Graduate School, prospective applicants should consult the Graduate School Catalog.

Department of Mineral Industries

Professor W. W. AUSTIN, Head of the Department

Professors:

W. C. BELL, W. W. KRIEGLER, J. M. PARKER, III, H. H. STADELMAIER, R. F. STOOPS

Associate Professors:

H. C. BROWN, W. C. HACKLER, C. J. LEITH, HAYNE PALMOUR, III

Visiting Research Associate:

J. D. SCHOBEL

Instructors:

G. O. HARRELL, L. E. POTEAT, J. M. WALLER

The primary objectives of the Department of Mineral Industries are the training and professional development of qualified technical and administrative leaders for those industries concerned with the location and utilization of mineral resources. Included within this scope of operation are the fields of geological, ceramic, and metallurgical engineering.

Curricula

Complete four-year undergraduate curricula in geological, ceramic, and metallurgical engineering are available in the department. Fifth year professional programs also are available for advanced work and specialization in each of these fields, and graduate programs leading to the master's and doctor's degree in ceramic engineering, and to the master's degree in geological engineering and metallurgical engineering are offered.

Facilities

The facilities of the Department of Mineral Industries are housed in Page Hall and the Ceramic Building. Located in Page Hall are departmental offices, drawing rooms, classrooms and extensive laboratory facilities for instructional work and research in the three areas of study covered by the department. Typical of the numerous well equipped laboratories in the building are those established for instruction in the following areas of study—ceramic operations and processes, dielectric measurements, ceramic microscopy, physical geology, mineralogy, mineral dressing, petrology, physical metallurgy, and metallography. Other laboratory facilities, particularly kilns and furnaces, are housed in the Ceramic Building next door. Important additional facilities for instruction and research are located in the Engineering Research Department's Ceramic and Metallurgi-

cal Research Laboratories. Here equipment and instrumentation are available for advanced work in high temperature technology, X-Ray diffraction, differential thermal analysis, thermogravimetric analysis, radiography, electron microscopy, and photomicrography.

Student Activities

The student branches of the American Ceramic Society, American Society for Metals, and the American Institute of Mining, Metallurgical and Petroleum Engineers through their monthly meetings provide an effective medium for the professional growth of the student engineers. Programs include presentation of student papers, guest speakers and social contact between student and staff. Participation acquaints the student with parliamentary and organizational procedures which are of great importance to professional, industrial and civic life. Students are encouraged to attend local section and national meetings of their respective societies. Keramos, the oldest professional engineering fraternity and Alpha Sigma Mu, honorary metallurgical fraternity, have active chapters in the department. These fraternities are dedicated to the promotion of scholarship, mental achievement and general service to ceramic and metallurgical engineering students.

CERAMIC ENGINEERING

The undergraduate curriculum in ceramic engineering is the result of years of study and development and is designed to meet the challenges of modern civilization. The program of study encompasses a thorough grounding in the basic physical sciences and the fundamental disciplines of engineering. Processes and operations peculiar to ceramic engineering are developed from the viewpoint of interpreting and applying the underlying scientific laws, rather than empirical methods of procedure. The phenomena studied include crushing, grinding, classification and pack states of particle aggregations, rheological properties and plastic and non-plastic masses, suspensions and slurries, drying of solids, combustion, heat transfer, and high temperature chemical reactions. Production at lowest possible cost and design and improvement of processes and operations are emphasized throughout the program. Attitudes of research, experimentation and originality of thought are fostered.

Because the department is dedicated to training young men for leadership, and because of the recognition that responsible leadership should be vested in thinking, well-oriented men, the curriculum includes a planned program of social and humanistic studies. This program is designed to prepare the student for an understanding and appreciation of his responsibilities to society, his profession, and himself, to the end that he will lead a fuller, more productive and satisfying life.

Opportunities

Professional training in ceramic engineering provides opportunities for employment in an industry producing a wide variety of essential products

including glass in all its forms, enamels and protective coatings for metals, structural clay products such as brick and tile, refractories for furnace linings, thermal insulators, electrical insulators, dielectric components, Portland cement, gypsum products, abrasives, dinnerware, art pottery, bath fixtures, and hundreds of other items. In addition to these "end products" ceramics are finding ever increasing applications in the electronic, aerospace, automotive and atomic energy fields. A continuing shortage of qualified personnel in ceramic engineering has resulted in far more employment offers than there are graduates. Initial employment upon graduation may be in the fields of research and development, in plant operation and control, and in technical sales and service. Such employment may lead to positions as directors of research, consulting and design engineers, sales directors, plant superintendents, production managers, and finally administrative officers.

GEOLOGICAL ENGINEERING

Geological engineering is a technical field in which geological facts are combined with engineering techniques for the solution of problems concerned mainly with mineral raw material supply and with engineering projects. Many major engineering undertakings, such as construction of large dams and reservoirs, tunnels, and large buildings, depend for success in part on an exact knowledge of their geological setting. On the other hand, such geological problems as the economical development of mineral resources require the use of the precise methods of engineering. In the field of geological engineering, then, geology contributes data concerning the constitution, structure and history of the earth; engineering supplies quantitative, analytical methods whereby physical and chemical laws may be controlled for mankind's benefit. The geological engineering curriculum combines those fundamental disciplines regarded as basic to all engineering with training in the aspects of geology that are of most practical application to human affairs.

Opportunities

A graduate in this curriculum may follow one of two broad fields of engineering, either in the United States or in foreign countries: one, the application of geology to engineering work; the other, the application of geology in the mineral industries. Geological engineers are currently employed by oil companies and quarrying concerns; exploration companies; construction firms; railroads, public utilities, banks and insurance companies; iron, steel and other metal producers; manufacturers using non-metallic mineral raw materials, as for ceramics, cement, and abrasives; municipal, state and federal government agencies; schools, colleges, museums and research institutes. The Southeastern United States offers excellent opportunities for geological engineers. There is a growing need for the application of geological science to engineering construction in connection with highways, foundations, excavations, and in water supply problems. The mineral industry of the Southeast has expanded substanti-

ally in the last decade; known deposits in the region, as yet only partially developed, include iron, nickel, copper, chromite, molybdenite, feldspar, mica, kaolin, kyanite, sillimanite, pyrophyllite, talc, barite, spodumene, sulphur (pyrite), coal, phosphate, granite, limestone, and marl.

METALLURGICAL ENGINEERING

The undergraduate curriculum in metallurgical engineering is a standard four-year program designed to produce technically trained leaders for those industries and agencies associated with the development, production, and fabrication of metals and alloys. The major emphasis is on the application of the principles of physical and mechanical metallurgy to engineering problems encountered in these industries. Major sequence courses for the development of this emphasis are offered during the third and fourth years of the curriculum and are preceded by a well rounded program of basic and engineering sciences, and humanities. Because of this arrangement it is possible for a student to complete the first two years of his training at a suitably qualified liberal arts college and to transfer to North Carolina State College for the final two years. While such an arrangement is encouraged it is nevertheless advisable for the prospective transfer student to seek the guidance and counsel of the Engineering School administration at the beginning of his college career in order to minimize difficulties associated with the transfer of credits. The metallurgical engineering curriculum is unique in the School of Engineering in that it provides a minor sequence of 12 credits in a related field of engineering or science to be elected by the student with his adviser.

Opportunities

Opportunities open to graduates in metallurgical engineering are virtually unlimited. Each year the demand for men with metallurgical training becomes more urgent, and the number of positions presently available is several times greater than the number of graduates. A graduate metallurgical engineer may thus choose from a wide selection of companies, locations and types of work. Among the more important job opportunities open to metallurgical engineers are those in research and development of new alloys so desperately needed as materials of construction in the rapidly expanding fields of chemical, mechanical, aero-space and nuclear technology. With the rapid industrialization of the South and particularly the State of North Carolina, new opportunities are constantly developing for metallurgical engineers who will play a vital role in maintaining the forward progress of the State and region.

Ceramic Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
**HI 205, Modern Western World or		**HI 205, Modern Western World or	
ENG 205, Reading for Discovery _____	3	ENG 205, Reading for Discovery _____	3
MA 201, Analytical Geometry and Calculus II _____	4	MA 202, Analytical Geometry and Calculus II _____	4
PY 201, General Physics _____	5	PY 202, General Physics _____	5
*MIN 201, Structure and Properties of Engineering Materials _____	3	CH 215, Quantitative Analysis _____	4
MS 201, Military Science II or		MS 202, Military Science II or	
AS 211, Air Science II _____	1	AS 212, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
	<hr/> 17		<hr/> 18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 341, Physical Chemistry _____	3	CH 342, Physical Chemistry _____	3
EM 341, Mechanics A (Statics) _____	2	EM 342, Mechanics B (Dynamics) _____	2
MIC 301, Ceramic Operations I _____	4	EM 343, Strength of Materials A _____	2
MIG 120, Physical Geology _____	3	MIC 302, Ceramic Operations II _____	3
MIG 330, Mineralogy _____	3	MIC 312, Ceramic Process Principles I _____	4
SS 301, Contemporary Civilization _____	3	SS 302, Contemporary Civilization _____	3
Elective _____	3	Elective _____	3
	<hr/> 21		<hr/> 20

Summer Requirement

Six weeks' industrial employment

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MIC 413, Ceramic Process Principles II _____	4	EE 320, Elements of Electrical Engineering _____	4
MIC 415, Ceramic Engineering Design _____	2	MIC 414, Senior Thesis _____	3
MIC 420, Industrial Ceramics _____	3	MIC 416, Ceramic Engineering Design _____	2
MIC 425, Seminar _____	1	MIC 505, Research and Control Methods _____	3
MIG 531, Optical Mineralogy _____	3	**SS 492, Contemporary Issues II or	
**SS 491, Contemporary Issues or		Humanities Elective _____	3
Humanities Elective _____	3	Elective _____	3
Elective _____	3		<hr/> 18
	<hr/> 19		

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in ceramic engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of elective permitted in the third year.

** See page 131 for information about the Humanities Sequence.

Professional Year

A fifth, or professional year of study is offered in ceramic engineering as a continuation of the four-year undergraduate program. This professional year of study offers specialized advanced course work leading to the degree of Ceramic Engineer, and is especially designed for those planning careers in industrial production activities and technical service and sales. Each program of study is designed to suit the needs of the individual student. The curriculum shown below is typical of these programs. Regulations covering professional study are shown on pages 132 and 133.

Typical Professional Program in Ceramic Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
IE 408, Production Control	3	IE 332, Motion and Time Study	4
MIC 507, Advanced Ceramic Experiments	3	MIC 508, Advanced Ceramic Experiments	3
MIC 511, Advanced Studies in Firing ..	3	MIC 527, Refractories in Service	3
Electives	6	Electives	5
	<hr/> 15		<hr/> 15

Geological Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 201, Analytical Geometry and Calculus II	4	MA 202, Analytical Geometry and Calculus III	4
PY 201, General Physics	5	PY 202, General Physics	5
MIG 220, Physical-Historical Geology ..	4	EM 200, Mechanics I	3
EC 205, Economic Process	3	ENG 205, Reading for Discovery	3
PE 201, Physical Education	1	PE 202, Physical Education	1
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II	1	PE 212, Physical Education	1
	<hr/> 18		<hr/> 17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 431, Physical Chemistry I	3	CH 433, Physical Chemistry II	3
EM 301 Solid Mechanics I	3	EE 320, Elements of Electrical Engineering	4
SS 301 Contemporary Civilization	3	SS 302, Contemporary Civilization	3
MIG 331, Crystallography & Optical Microscopy	4	MIG 440, Endogenic Materials and Processes	4
CE 201, Surveying I	3	Elective	3
	<hr/> 16		<hr/> 17

Summer Session

MIG 456, Geological Field Procedures

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CE 382, Hydraulics	3	Humanities Elective	3
SS 491, Contemporary Issues	3	*MIG 415, Mineral Exploration and Evaluation	3
MIG 351, Tectonic Structures	3	*MIG 552, Exploratory Geophysics	3
MIG 452, Exogenic Materials and Processes	4	Electives	6
Elective	3		
	<hr/> 16		<hr/> 15

Professional Study

A fifth or professional year of study is offered in geological engineering as a continuation of the fourth-year undergraduate program. This fifth year of study offers specialized and advanced work leading to the degree of Geological Engineer. Regulations covering professional study are shown on pages 132 and 133.

Typical Professional Program in Geological Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MIG 461, Engineering Geology	3	MIG 522, Petroleum Geology	3
MIG 571, Mining and Mineral Dressing	3	MIG 552, Exploratory Geophysics	3
MIG 581, Geomorphology	3	MIG 572, Mining and Mineral Dressing	3
MIG 611, Advanced Economic Geology	3	MIG 612, Advanced Economic Geology	3
Elective	3	Elective	3
	<hr/> 15		<hr/> 15

Metallurgical Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
**HI 205, Modern Western World or		**HI 205, Modern Western World or	
ENG 205, Reading for Discovery	3	ENG 205, Reading for Discovery	3
MA 202, Analytical Geometry and Calculus II	4	MA 202, Analytical Geometry and Calculus III	4
PY 201, General Physics	5	PY 202, General Physics	5
***MIM 201, Structure and Properties of Engineering Materials I	3	MS 202, Military Science II or	
MS 201, Military Science II or		AS 222, Air Science II	1
AS 221, Air Science II	1	PE 202, Physical Education	1
PE 201, Physical Education	1	Elective	3
	<hr/> 17		<hr/> 17

* Specialization in engineering geology or in geology of mineral deposits may be achieved by an approved substitution of the following courses: CE 547 Fundamentals of Soil Mechanics; MIG 461 Engineering Geology; MIG 472 Elements of Mining Engineering.

** See page 131 for information about Humanities Sequence.

*** Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in metallurgical engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 431, Physical Chemistry	3	CH 432, Physical Chemistry	3
EM 341, Mechanics A (Statics)	2	EM 342, Mechanics B (Dynamics)	2
IE 217, Machine Tools	1	EM 343, Strength of Materials	2
IE 218, Metal Forming	1	MIM 332, Physical Metallurgy II	3
MIM 331, Physical Metallurgy I	3	SS 302, Contemporary Civilization	3
SS 301, Contemporary Civilization	3	Minor Sequence Courses	3
Minor Sequence Courses	3	Elective	3
Elective	3		
	<hr/>		<hr/>
	19		19

Summer Requirement

Six weeks' industrial employment

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EM 430, Fluid Mechanics	2	EE 320, Electrical Engineering	4
MIM 401, Metallurgical Operations	4	MIM 402, Metallurgical Operations	4
MIM 431, Metallography	3	MIM 432, Metallography	3
MIM 451, Seminar	1	MIM 452, Seminar	1
*SS 491, Contemporary Issues I		*SS 492, Contemporary Issues II	
or		or	
Humanities Elective	3	Humanities Elective	3
Minor Sequence Course	3	Minor Sequence Course	3
Elective	3		
	<hr/>		<hr/>
	19		18

Professional Study

A fifth, or professional year of study is offered in metallurgical engineering as a continuation of the four-year undergraduate program. This professional year of study offers specialized advanced course work leading to the degree of Metallurgical Engineer, and is especially designed for those planning careers in industrial production activities and technical service and sales. Each program of study is designed to suit the needs of the individual student. The curriculum shown below is typical of these programs.

Regulations covering professional study are shown on pages 132 and 133.

* See page 131 for information about Humanities Sequence.

Typical Professional Program in Metallurgical Engineering

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MIM 521, Advanced Physical Metallurgy	3	MIM 522, Advanced Physical Metallurgy	3
MIM 523, Metallurgical Factors in Design	3	MIM 524, Metallurgical Factors in Design	3
MIM 445, Experimental Engineering	3	MIM 446, Experimental Engineering -	3
PY 407, Modern Physics	3	CHE 502, Electrochemical Engineering	3
ME 502, Heat Transfer	3	ME 515, Experimental Stress Analysis -	3
	<hr/> 15		<hr/> 15

Department of Nuclear Engineering

Professor H. A. LAMONDS, Head of the Department

The field of nuclear engineering is concerned with the engineering aspects of the control, release and utilization of nuclear energy. Many of the benefits which mankind stands to receive from the peaceful applications of nuclear power are already clear. These include improved medical diagnosis through the use of radioisotopes, superior plant development by radiation induced mutations, rapid and precise measurement techniques using radiation and perhaps best known, production of electrical power from nuclear energy. It is the aim of the department to educate individuals in the scientific and engineering principles essential to the nuclear engineering field and to prepare them to contribute to the efficient and productive use of nuclear energy through their work in the field.

Curriculum

Nuclear engineers are called upon to participate in a wide variety of highly sophisticated work, generally of an interdisciplinary nature. The curriculum is designed to provide training in the fundamentals of nuclear engineering with particular emphasis on the reactor field. The fact that an unusually high percentage of nuclear engineers continue or return to graduate study suggests that the program be aimed at a fifth year of study leading to the Master of Science degree. Minor adjustments are incorporated, however, to facilitate the student's terminating his work at four years with a Bachelor of Science degree. When one considers that nuclear engineers may be involved with every phase of the reactor field including research, development, functional design, production design, manufacturing, installation and marketing, it becomes clear that a single engineer cannot be trained to be proficient in all of these areas. On the other hand many fundamentals are common to most phases of the reactor field and certain general areas may be identified as basic.

Fundamental course work is provided in four such areas: reactor theory, reactor energy transfer, electronics, and materials. In addition to this broad basic study, the students will be required to select an area of specialization providing further study in the following areas: energy transfer,

nuclear instrumentation and nuclear materials. Once a student has chosen his specialized area, he will be expected to complete a series of technical elective courses covering twelve credit hours. The three sequences offered are as follows:

Energy Transfer

Heat transfer, fluid mechanics and thermodynamics as applied to removing energy from a nuclear reactor.

	Credits
ME 503, Elements of Nuclear Power Generation I	3
ME 504, Elements of Nuclear Power Generation II	3
CHE 551, Thermal Problems in Nuclear Engineering	3
Free technical elective	3

Nuclear Instrumentation

Study of the special problems and techniques used in controlling and instrumenting reactors.

	Credits
EE 430, Essentials of Electrical Engineering	4
EE 511, Electrical Engineering	
or	
EE 515, Elements of Control	3
EE 518, Instrumentation and Control in Nuclear Technology	3
Free technical elective	2

Nuclear Materials

Selection and control of properties of materials used in the radiation environment.

	Credits
MIM 331, Physical Metallurgy I	3
MIM 332, Physical Metallurgy II	3
MIM 431, Metallography I	3
MIM 562, Materials Problems in Nuclear Engineering	3

At the end of the sophomore year, all students are required to select their area of emphasis. The technical elective sequence specified for each area of emphasis assures that the stated objectives will be met once the choice is made. In addition to the technical sequence, students receive a thorough foundation in basic science and mathematics, followed by courses in reactor theory and engineering.

Facilities

Facilities available on campus for nuclear training at the undergraduate level as well as the graduate level include:

- A 10 KW heterogeneous reactor*
- A 100 watt homogeneous reactor*
- Analog and digital computers*
- A sub-critical assembly*
- Single and multi-channel pulse height analyzers*
- Neutron Diffraction equipment*
- A slow chopper*
- Radiation counting laboratories*

Opportunities

Although the nuclear industry is relatively young, it already represents a major national effort. Reactor development and construction has proceeded at a remarkable pace and will continue to grow as we become more and more dependent on nuclear energy as a substitute for energy from fossil fuels. Industrial applications of radiation will accelerate as the economic potential of such methods becomes more firmly established. There is at present a substantial need for nuclear engineers and prospects for the future are promising.

Nuclear Engineering Curriculum

For the freshman year see page 130.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 201, General Physics	5	PY 202, General Physics	5
MA 201, Analytical Geometry and Calculus II	4	MA 202, Analytical Geometry and Calculus III	4
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II	1	AS 222, Air Science II	1
PE 201, Physical Education	1	PE 202, Physical Education	1
ENG 205, Reading for Discovery	3	HI 205, The Modern Western World ..	3
MIM 201, Structures and Properties of Engineering Materials	3	EM 200, Introduction to Mechanics ..	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization ..	3
	<hr/>		<hr/>
	20		20

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 407, Introduction to Modern Physics	3	PY 410, Nuclear Physics I	4
EM 301, Mechanics I	3	EE 332, Principles of EE	4
MA 301, Differential Equations	3	CHE 422, Reactor Energy Transfer II ..	3
EE 331, Principles of Electrical Engineering	4	Technical Elective	3
CHE 421, Reactory Energy Transfer I ..	3	Elective	3
Elective	3		<hr/>
	<hr/>		17
	19		

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
SS 491, Contemporary Issues	3	**Humanities Elective	3
NE 501, Nuclear Engineering Systems I	3	NE 502, Nuclear Engineering Systems II	3
*MA 511, Advanced Calculus I	3	NE 503, Nuclear Reactor Theory I ..	3
Technical Electives	6	NE 531, Elementary Nuclear Reactor Laboratory	1
Elective	3	Technical Elective	3
	<hr/>	Elective	3
	18		<hr/>

16

* Students with less than "B" average in mathematics should register for MA 401.

** See page 131 for information about the Humanities Sequence.





School Of Forestry

RICHARD J. PRESTON, Dean

While forestry has been recognized and practiced for centuries in Europe, this profession is relatively new in the United States, dating from about the beginning of the 20th Century. During the period of rapid expansion and development of the United States, the forests were badly neglected and abused. Now, however, with the timber supplies depleted and the value of timber products increasing, sound forest practices have been accepted as economically desirable and feasible. Increasing the productivity and quality of our forests is basic to the welfare of the Southeast. The importance of the forest resource in the economy of North Carolina is brought out by the fact that 62 per cent of the land area is in forest, with wood products industries ranking next to textiles as a source of industrial employment.

Through a program which offers a broad training in the physical and biological sciences, as well as a sound cultural background, the School of Forestry prepares students for service in the professional fields of forest management, pulp and paper technology, and wood technology.

Curricula

The school, through its departments of Forest Management and Wood Science and Technology, offers undergraduate instruction leading to the degree of Bachelor of Science in the professional fields of forest management, wood technology, and pulp and paper technology. All curricula have a common freshman year thus enabling the student to postpone selection of a major field until he has had an opportunity to become acquainted with its scope and possibilities.

Forest management deals with all phases of the management of wild lands and includes such related subjects as water-shed protection, wildlife management and recreation. In order that the student may be adequately prepared for work of such diverse nature, the curriculum provides training in such subjects as silviculture, timber estimating, management, fire prevention and control, forest pathology, insect control, forest soils, economics, and other aspects of land use.

The course of study in wood technology, which is concerned with the technical aspects of utilization, includes training in all types of wood using and wood manufacturing industries. It incorporates technical and practical principles of logging, milling, seasoning, gluing, preserving, finishing, fabricating, and machining, and includes the fundamentals of sound business administration.

Pulp and paper technology trains men for work in pulp and paper mills. Students are given thorough training in chemistry, mathematics, physics, wood structure and properties, pulping processes and engineering subjects related to pulp and paper manufacturing.

Degrees

The Bachelor of Science degree is conferred upon the satisfactory completion of any of the four-year curricula in the areas mentioned above.

Professional preparation beyond the four-year curricula is desirable, and qualified students are urged to plan a five-year program leading to the master's degree. The degree of Master of Science is offered for those desiring specialization in the fields of scientific research. For students desiring a thorough professional background, the school offers the degree of Master of Forestry or Master of Wood Technology.

The degree of Doctor of Philosophy is offered in several fields of forestry and wood technology.

Further information regarding graduate study is contained in the Graduate School Catalog which may be obtained from the dean of the Graduate School.

Facilities and Laboratories

The School of Forestry is now housed in three modernly equipped buildings on the west side of the campus. Faculty offices, classrooms, and laboratories are now located in Kilgore Hall, the main forestry building. In addition, two buildings house specialized programs which are unique in the South.

Wood Products Laboratory

The Brandon P. Hodges Wood Products Laboratory is one of the largest and best equipped laboratories in existence for the conduct of research and training in wood technology. Staff offices, research facilities, wood structure, chemistry and physical properties laboratories are located in the forestry building. In addition, the Brandon P. Hodges Laboratory building houses the wood machining, finishing, gluing and preserving laboratories, as well as the sawmill, dry kilns, and veneer plant. The laboratory provides service to the wood using industries in the development of methods of quality control, production control, operations analysis, and market analysis. Graduate students in wood technology participate in the laboratory's research program as a part of their advanced training.

Reuben B. Robertson Laboratory of Pulp and Paper Technology

The curriculum in pulp and paper technology is approved as the regional program to serve the Southeast. The Robertson Laboratory provides unique and outstanding facilities for instruction and research. Located in the building are wood preparation, chemical, pulping, pulp and paper testing, and colorfast laboratories, as well as digesters, and a small

paper machine. Space and equipment are adequate to handle 40 seniors and 10 graduate students.

School Forests

The School of Forestry, with more than 82,000 acres of forest land and three permanent field camps, has facilities unexcelled in many respects for field instruction and research.

The Hofmann Forest, owned and operated by the North Carolina Forestry Foundation for the benefit of the School of Forestry, consists of approximately 78,000 acres located in Jones and Onslow counties in the southeastern portion of the State. Pond and loblolly pine together with hardwood and cypress swamps characterize this tract.

The George Watts Hill Demonstration Forest is a tract of 1,500 acres located 16 miles north of Durham. This typically Piedmont forest of rolling terrain contains stands of loblolly, shortleaf, and Virginia pines along with numerous hardwoods. The permanent summer camp of sophomores is located in this area. This Piedmont area is supplemented by the 1,750 acre Hope Valley Forest near Chapel Hill.

The Wayah Recreational Area on the North Carolina National Forest near Franklin is located in a typical mountain forest. Facilities at this area have been leased from the Government and portions of the spring semester of the senior year and of the sophomore summer camp are held in permanent quarters of this mountain tract.

The Carl Alwin Schenck Memorial Forest of 250 acres located four miles northwest of the campus is being developed into a model farm forest and is used for field instruction near the campus.

The school nursery is equipped for instructional purposes and the production of planting stock.

Field Instruction and Experience

All students are required to present a minimum of one summer of acceptable work experience in order to meet the graduation requirements. Students are required to consult with their advisers as to what type of employment will be acceptable.

The 10-week sophomore summer camp is a requirement for students in forest management. This camp is prerequisite for junior standing. Permanent, well equipped camps are maintained on these coastal, Piedmont, and mountain forests. A "C" average is required for admission to these camps.

Wood technology students are required to attend a 10-week practicum following the sophomore year. This practicum is prerequisite for junior standing. The first half of this period is devoted to laboratory exercises in machining, gluing, drying and finishing wood; preparation of particle board; operation safety and maintenance of equipment; and plant inspections. The second half covers experience in logging, milling, cruising, and graphic methods.

Additional field instruction and scheduled trips to representative wood industries are required of all students as a part of their class assignments.

To cover the costs of chemical supplies and off-campus training all students enrolled in the School of Forestry pay a field laboratory fee of \$10 each year at the time they first register during a school year. A maintenance and supply fee of \$20 is charged for both the summer camp and practicum.

Opportunities

A wide and rapidly expanding field of employment possibilities is available in the Southeast to young men trained in forestry. Until recent years most job opportunities were with government agencies in managing public forests, and this still constitutes a major source of employment. These agencies include State and Federal forest services, extension services, and other groups such as the Soil Conservation Service and the Tennessee Valley Authority.

In recent years job opportunities with private industries have expanded greatly. Increasing numbers of technically trained young men are entering a wide variety of professional positions in the fields of forest land management, water-shed management, logging, sawmilling, veneer and plywood manufacturing, pulp and paper making, kiln drying, wood preservation and the manufacture of wood products such as furniture, dimension stock and various prefabricated items.

The merchandising of lumber and lumber products offers numerous opportunities for students qualified for sales, business administration or small building construction. Sawmills and lumber yards, plywood and paper manufacturers, and flooring, wallboard, and other forest products plants need trained men.

Exceptional students will find opportunities for employment in research or teaching. This type of work ordinarily requires a graduate degree. There has been an increasing demand for well-trained woodlands managers and wood technologists, as well as for research workers in government experiment stations and laboratories.

More than 80 per cent of the graduates of the School of Forestry are now employed in some field of forest or wood products work. The few students who have not followed the forestry profession have found their college education sufficiently broad to provide a sound basis for a wide variety of work.

Extension Programs

The Forestry Extension Program of the Agricultural Extension Service is a vital part of the school's forestry activities. This program serves the landowners and wood industries of the State. It is responsible for their understanding, acceptance, and application of new ideas and techniques developed through research and experience. The two major fields of program emphasis are forest management, where extension specialists train and work through the county agents; and wood products, where the specialists work more or less directly with wood industry owners and managers.

In cooperation with the College Extension Division, short courses are offered in a number of fields to provide men in industry an opportunity to keep abreast of modern developments in techniques and equipment.

Fellowships, Scholarships, and Loan Funds

A number of undergraduate scholarships, research assistantships and training fellowships are available to qualified students. Students interested in applying should write to the dean of the School of Forestry.

The Hofmann Loan Fund was established by alumni of the School of Forestry to honor Dr. J. V. Hofmann, the first director of the Division. Loans to worthy students are available through the Student Loan Fund established by the State College Alumni Association.

Many students help pay their expenses through part-time work at the College or in town. The College Counseling Center assists in locating employment.

Honors Program

Students making exceptional academic records during their freshman and sophomore years may, with the approval of the faculty, elect to follow an honors program. These students are required to enroll in the core courses in the several curricula but are otherwise free to utilize their electives to develop individual courses of study designed to meet their needs and satisfy their interests, subject only to the approval of the honors adviser.

Freshman Year in All Forestry Curricula

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
BO 103, General Botany	4	*BO 214, Dendrology	4
**CH 101, General Inorganic Chemistry		or	
or		*EC 201, General Economics	3
**CH 105, General Inorganic Chemistry	4	and	
ENG 111, Composition	3	*ME 101, Engineering Graphics	2
FOR 101, Introduction to Forestry	1	**CH 103, General and Qualita- tive Chemistry	
***MA 111, Algebra, Trigonometry	4	or	
MS 101, Military Science I		**CH 107, General and Qualita- tive Chemistry	4
or		ENG 112, Composition	3
AS 121, Air Science I	1	***MA 112, Analytic Geometry and Calculus A	4
PE 101, Physical Education and Hygiene	1	MS 102, Military Science I	
	18	or	
		AS 122, Air Science I	1
		PE 102, Physical Education and Hygiene	1
			17 or 18

* Forest Management and Wood Technology students take BO 214, Pulp and Paper students take ME 101 and EC 201.

** Forest Management and Wood Technology students take CH 101 and 103, Pulp and Paper students take CH 105 and 107.

*** Students with adequate backgrounds should take MA 101, 102.

Department of Forest Management

Professor T. E. MAKI, Head of the Department

Professors:

R. C. BRYANT, J. W. DUFFIELD, ARTHUR KELMAN, J. O. LAMMI, W. D. MILLER, B. J. ZOBEL

Associate Professors:

C. B. DAVEY, M. H. FARRIER, T. O. PERRY

Assistant Professors:

C. S. HODGES, L. C. SAYLOR

Instructors:

P. J. DYSON, R. L. McELWEE

Forest management is the application of business methods and technical forestry principles to the operation of forest properties. This field requires a knowledge of individual trees and timber stands, of different forest types and entire forest areas, as well as of the basic biological relationships within the forests. It also requires a knowledge of land surveying, timber cruising, measurement of forest products, and of the economic factors involved in the business of growing wood crops.

Curriculum

The curriculum in forest management is organized to provide a broad basic training and also to permit limited specialization. To accomplish the latter goal, the curriculum includes 24 elective credits. At the beginning of his junior year, the student selects one of the five areas of specialization listed and chooses courses listed under this field for his elective credits.

The curriculum leads to the degree of Bachelor of Science in forest management. A minimum of 152 credits is required for graduation.

Opportunities

Students who complete the curriculum are trained for positions with pulp companies, lumber companies, and other private landowners; federal and state forest services; agricultural extension; and for private enterprise as consultants, forest landowners or sawmill operators.

Forest Management Curriculum

For the freshman year see page 181.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 201, General Economics	3	CH 220, Organic Chemistry	4
ENG 205, Reading for Discovery	3	FOR 219, Forest Economy and Its Operation	3
FOR 202, Wood Structure and Properties	3	PY 212, General Physics	4
MA 211, Analytic Geometry and Calculus	3	SSC 200, Soils	4
PY 211, General Physics	4	MS 202, Military Science II or	
MS 201, Military Science II or		AS 222, Air Science II	1
AS 221, Air Science II	1	PE 202, Physical Education	1
PE 201, Physical Education	1		

Summer Camp

	<i>Credits</i>
FOR S204, Silviculture	3
FOR S264, Protection	3
FOR S274, Mapping and Mensuration	3
FOR S284, Utilization	1
	<hr/> 10

Junior Year

<i>Fall Semester</i>	<i>Credits</i>		<i>Spring Semester</i>	<i>Credits</i>
FOR 361, Silvics	3		FOR 362, Silvics	3
ST 311, Statistics	3		FOR 372, Mensuration	3
*ENT 301, Forest Insects	3	or	*PP 318, Forest Tree Diseases	3
**English Elective	3	or	**English Elective	3
***Option Requirement and Electives	9		***Option Requirement and Electives	9
	<hr/> 18			<hr/> 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>		<i>Spring Semester</i>	<i>Credits</i>
FOR 531, Forest Management	3		FOR 511, Silviculture	3
***Option Requirement and Electives	15		FOR 532, Forest Management	3
	<hr/> 18		***Option Requirement and Elective	12
				<hr/> 18

Forest Management Fields of Specialization

A student selects one of the following fields of specialization and must take those courses listed under that field.

Forest Management

	<i>Credits</i>
BO 421, Plant Physiology	4
CE 201, Surveying	3
FOR 404, Management Analysis	3
FOR 405, Forest Inventory	3
FOR 512, Forest Economics	3
FOR 553, Photogrammetry	2
FIR 571, Advanced Mensuration	3
ST 312, Statistics	3
	<hr/> 24

* Either ENT 301 or PP 318 is required of all students. English elective is scheduled for alternate semester.

** Students not making better than "C" average in ENG 111, 112, or presenting transfer credits for ENG 111, 112 will schedule ENG 321, Scientific Writing.

*** Electives must include at least 9 credits in humanities or social science.

Forest Management Science*Credits*

EC 301, Production & Prices	3
EC 302, Nat'l Income & Ec. Welfare ..	3
EC 401, Prin. Accounting	3
FOR 512, Forest Economics	3
FOR 572, Forest Policy	3
MA 212, Calculus	3
MA 215, or 405—Finite Math or Matrix Algebra	3
ST 312, Statistics	3
	<hr/>
	24

Forest Mensuration*Credits*

BO 421, Plant Physiology	4
CE 201, Surveying	3
CE 510, Advanced Surveying	3
FOR 553, Photogrammetry	2
FOR 571, Advanced Mensuration	3
MA 212, Analytics & Calculus	3
MA 215, Finite Math	3
ST 312, Statistics	3
	<hr/>
	24

Watershed Management*Credits*

AGE 371, Soil and Water Conser- vation Engineering	4
CE 201, Surveying	3
FOR 553, Photogrammetry	2
MA 212, Calculus	3
MIG 120, Physical Geology	3
PY 322, Descriptive Meteorology	2
PY 333, Applied Meteorology	2
SSC 511, Soil Physics	4
	<hr/>
	23

Forest Biology*Credits*

BO 421, Plant Physiology	4
BO 441, Plant Ecology	3
CE 201, Surveying	3
ENT 301 or PP 318, Insects or Disease	3
MA 212, or MA 215	3
ZO 103, Zoology	4
ZO 551, Wildlife Science	3
	<hr/>
	23

Forest Recreation and Parks

	<i>Credits</i>
BO 441, Plant Ecology	3
ENT 301, Insects	
or	
PP 318, Diseases	3
MIG 120, Physical Geology	3
PSY 200, Psychology	3
RS 301, Rural Sociology	3
SOC 202, Sociology	3
ZO 103, Zoology	4
ZO 551, Wildlife Science	3
	<hr/>
	25

Forest Wildlife Management

	<i>Credits</i>
ZO 103, Zoology (Soph. Year)	4
ZO 206, Vertebrate Zoology	4
ZO 301, Animal Physiology	4
ZO 520, Fishery Science	3
ZO 522, Animal Ecology	3
ZO 551, Wildlife Science	3
ZO 552, Wildlife Science	3
	<hr/>
	24

Department of Wood Science and Technology

Professor E. L. ELLWOOD, Head of the Department
Professors:

R. M. CARTER, B. A. JAYNE, A. J. STAMM

Associate Professors:

A. C. BAREFOOT, C. A. HART, R. G. HITCHINGS

Assistant Professors:

H. D. COOK, C. G. LANDES, R. J. THOMAS

Instructors:

P. J. DYSON, R. C. GILMORE, J. T. RICE

The wood industries have been a vital part of the economy of North Carolina for over 300 years. North Carolina ranks first in the nation in the manufacture of hardwood, plywood and wooden furniture, first in the South in lumber production and among the leaders in the manufacture of pulp and paper. The value of forest products produced annually in the State exceed \$1,125,000,000. Seventeen per cent of the State's labor force is employed in the wood industries.

The Department of Wood Science and Technology offers two curricula, Wood Technology and Pulp and Paper Technology, to train men for careers in the wood industries.

WOOD TECHNOLOGY

Professor E. L. ELLWOOD, In Charge

Curriculum

The great wood industries which convert wood into thousands of commercial products offer many opportunities for wood technology majors.

The curriculum has been designed to give sound coverage in mathematics and the sciences and to permit sufficient flexibility to enable students to specialize along lines of major interest. At the end of the sophomore year, wood technology students attend a 10-week practicum which is prerequisite to junior standing. At the beginning of the junior year students select an option.

The option in wood products manufacturing trains men for supervisory and production positions in the manufacture of such products as lumber, veneer, plywood, particle board, dimension stock, furniture, cabinets, millwork, and flooring.

The wood products economics and management option stresses the fields of business administration and economics and trains men for careers in merchandising and administration in the wood processing industries, the construction industry, or with material suppliers.

This curriculum leads to the degree of Bachelor of Science in wood technology. A minimum of 151 credits is required for graduation.

Opportunities

A career with wood industries offers a variety of opportunities for young men trained in wood properties, manufacturing operations and business methods. The application of new processes and materials in the conversion of timber into the thousands of wood products has created a demand for technically trained men. Companies manufacturing lumber, veneer and plywood, hardwood dimension stock, furniture, millwork, flooring, pianos, caskets, wood turnings, adhesives, preservatives, finishing materials, and composition boards are types of industries interested in employing graduates.

Wood Technology Curriculum

For the freshman year see page 181.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EC 201, General Economics	3	CH 220, Organic Chemistry	4
ENG 231, Basic Speaking Skills	3	FOR 203, Wood Structure and Properties II	3
FOR 202, Wood Structure and and Properties I	3	*MA 212, Calculus	3
*MA 211, Calculus	3	ME 101, Engineering Graphics	2
*PY 211, General Physics	4	*PY 212, General Physics	4
MS 201, Military Science or		MS 202, Military Science or	
AS 221, Air Science	1	AS 222, Air Science	1
PE 201, Physical Education	1	PE 202, Physical Education	1
	<hr/> 18		<hr/> 18

Summer Practicum

<i>First Session Wood Products</i>	<i>Credits</i>	<i>Second Session Wood</i>	<i>Credits</i>
Practicum (Five Weeks)		Practicum (Five Weeks)	
FOR 205-S, Wood Machining Practicum	1	FOR 210-S, Mensuration Practicum	2
FOR 206-S, Wood Drying Practicum	1	FOR 211-S, Logging and Milling Practicum	2
FOR 207-S, Gluing Practicum	1	FOR 212-S, Graphic Methods	1
FOR 208-S, Wood Finishing Practicum	1		<hr/> 5
FOR 209-S, Plant Inspections	1		
	<hr/> 5		

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
EM 341, Mechanics A (Statics)	2	FOR 219, Forest Economy and Its Operation	3
ENG 321, Scientific Writing	3	FOR 302, Wood Processes II	4
FOR 301, Wood Processes I	4	For 444, Intro. to Quality Control	3
ST 361, Statistics for Engineers	3	Technical Electives	3
Technical Electives	4	Electives	5
	<hr/> 16		<hr/> 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
FOR 434, Wood Operations I	3	FOR 435, Wood Operations II	3
FOR 521, Wood Chemistry	3	FOR 441, Design of Wood Structures	3
Technical Electives	3	FOR 591, Wood Technology Problems	3
Electives	9	Technical Electives	3
	<hr/> 18	Electives	6
			<hr/> 18

* Students who have completed MA 101, 102, should take MA 201, 202, and PY 201, 202.

Fields of Specialization

At the beginning of the junior year, students with exceptional academic records may, with the approval of the faculty, elect the Honors Program. Other students will elect one of the following options. When an option is chosen the student will select at least two courses from one area of emphasis and at least one course from each of the other two areas of emphasis. The remaining elective hours are to be courses selected by the student in consultation with his adviser to best fit his particular interests.

Wood Products Manufacturing Option

		<i>Credits</i>
OPERATIONS ANALYSIS	EC 450, Economic Decision Processes	3
	EC 552, Econometrics	3
BUSINESS ADMINISTRATION	EC 310, Economics of the Firm	3
	EC 432, Industrial Relations	3
STATISTICS	ST 515, Experimental Statistics for Engineers	3
	ST 516, Experimental Statistics for Engineers	3

Wood Products Economics and Management Option

		<i>Credits</i>
ECONOMICS	EC 301, Production and Prices	3
	EC 302, National Income and Economic Welfare	3
	EC 448, International Trade	3
OPERATIONS ANALYSIS	EC 450, Economic Decision Processes	3
	EC 552, Econometrics	3
BUSINESS ADMINISTRATION	EC 310, Economics of the Firm	3
	EC 312, Elements of Accounting	3
	EC 425, Industrial Management	3

PULP AND PAPER TECHNOLOGY

Professor R. G. HITCHINGS, In Charge

Curriculum

The curriculum in pulp and paper technology trains men for technical work in the rapidly growing pulp and paper industry. Graduates are prepared for careers as pulp technologists, paper mill chemists, quality control specialists, and mill superintendents. After a thorough background in basic sciences, the program offers special work in wood pulping processes, chemical and by-products recovery, pulp bleaching, and the various papermaking operations such as refining, sizing, filling, coloring, coating, and converting.

The pulp and paper industry ranks fifth among all American industries. In 1960 pulp and paper products were valued at 10.7 billions of dollars and the industry employed more than 562,000 skilled workers. This is primarily a Southern industry with 60 per cent of the nation's pulpwood produced in the South.

Financially supported by 55 major companies, this program was created to meet the critical need for trained men. It is a regional program

and has been approved by the Southern Regional Education Board as the undergraduate program to serve the Southeast in this field. A number of scholarships are available. The new Robertson Laboratory of Pulp and Paper Technology provides this program with outstanding facilities.

All students majoring in this curriculum are required to spend at least one summer working in a pulp or paper mill where arrangements have been made by the College for such employment. Three hours of academic credit are granted the student after completion of 12 weeks of mill work and presentation of a satisfactory report covering this work experience. In addition to this minimum summer work requirement, students are urged to work in mills the two remaining summers between academic years because of the great value of practical experience in this industry.

This curriculum leads to the degree of Bachelor of Science in pulp and paper technology. A minimum of 147 credits is required for graduation. A fifth year leading to the degree of Bachelor of Science in chemical engineering is available for interested students.

Pulp and Paper Technology Curriculum

For the freshman year see page 181.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 221, Organic Chemistry	4	CH 223, Organic Chemistry	4
*MA 211, Calculus B	3	FOR 342, Fiber Analysis	3
*PY 211, General Physics	4	*MA 212, Calculus C	3
MS 201, Military Science		*PY 212, General Physics	4
or		MS 202, Military Science	
AS 221, Air Science	1	or	
PE 201, Physical Education	1	AS 222, Air Science	1
English Elective	3	PE 202, Physical Education	1
Electives	3		
	<hr/>		<hr/>
	19		16

Summer

Credits

FOR 491, Forestry Problems,
Mill Experience3

* Students who have completed MA 101, 102 should take MA 201, 202 and PY 201, 202.

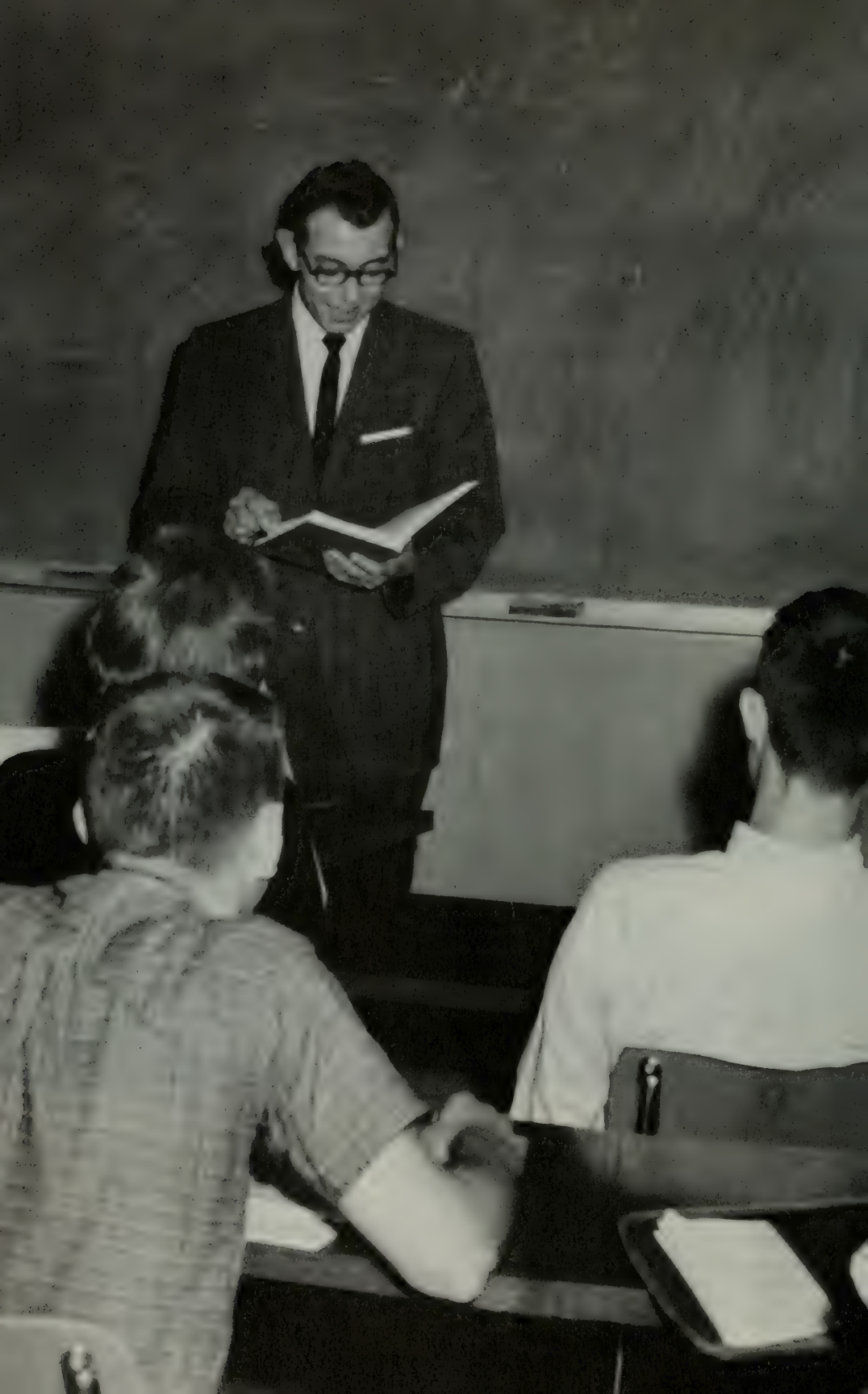
Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CHE 301, Elements of Chemical Engineering _____	3	CHE 302, Elements of Chemical Engineering _____	3
CH 215, Quantitative Analysis _____	4	CH 231, Physical Chemistry _____	4
FOR 321, Pulp and Paper Technology _____	3	FOR 322, Pulp and Paper Technology _____	3
ME 304, Fundamentals of Heat Power _____	3	PSY 200, General Psychology _____	3
Social Science Elective _____	3	Social Science Elective _____	3
English Elective _____	3	Elective _____	3
	<hr/> 19		<hr/> 19

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
FOR 411, Pulp and Paper Unit Processes _____	3	FOR 403, Paper Process Analysis _____	3
FOR 413, Paper Properties and Additives _____	4	FOR 412, Pulp and Paper Unit Processes _____	3
FOR 471, Pulping Process Analysis _____	4	FOR 461, Paper Converting _____	1
FOR 491, Senior Research Problem _____	1	FOR 463, Plant Inspections _____	1
FOR 521, Wood Chemistry _____	3	FOR 482, Pulp and Paper Mill Management _____	2
Electives _____	3	FOR 522, Wood Chemistry _____	3
	<hr/> 18	Electives _____	4
			<hr/> 17





School Of General Studies

FRED V. CAHILL, Dean

State College, like other Land-Grant Colleges, has from the beginning performed a two-fold function: the training of men for positions of professional and technical leadership and, at the same time, equipping them for posts of social responsibility and for life as enlightened citizens of a democratic state.

In discharging its portion of the responsibilities of the College, the School of General Studies seeks to develop the student's communication and reading skills through the study of language and literature; to increase his understanding of his economic, social, political and philosophical environment; to enhance his sense of social responsibility as a scientist and technical leader; to teach him to think critically and scientifically in the world of human affairs as he does within the confines of his professional and technological competence; and to assist him in developing physical strength and stamina as a basis for healthful living. Beyond the fundamental training required by the technical curricula, the School of General Studies also provides additional elective work in these areas. Courses of study leading to the degree of Bachelor of Science with concentrations in economics, English, history and political science, and sociology are offered by the school.

The School of General Studies includes the Departments of Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Physical Education, Social Studies, and Sociology and Anthropology. The dean and the department heads constitute the Administrative Board of the school. This board works with the school faculty in matters of policy and instruction.

Curriculum

The curriculum in the School of General Studies leading to the Bachelor of Science degree follows:

Freshman Year			
<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 111, Composition and Rhetoric	3	ENG 112, Composition and Reading	3
•Modern Language	3	Modern Language	3
CH 101, General Chemistry I	4	CH 103, General Chemistry II	4
MA 101, Algebra and Trigonometry	5	MA 102, Analytic Geometry and Calculus II	4
	15	PHI 203, Introduction to Philosophy	2

* At the intermediate level.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 205, Reading for Discovery		ENG 205, Reading for Discovery	
or		or	
Elective	3	Elective	3
MA 201, Analytic Geometry and		MA 202, Analytic Geometry and	
Calculus II	4	Calculus III	4
PY 201, General Physics	5	PY 202, General Physics	5
History or Social Science	3	History or Social Science	3
	<hr/> 15		<hr/> 15

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
History and Philosophy of Science	3	History and Philosophy of Science	3
Course I—Humanities or Social Science		Course III—Humanities or Social Science	
Concentration	3	Concentration	3
Course II—Humanities or Social Science		Course IV—Humanities or Social Science	
Concentration	3	Concentration	3
Course I—Advanced Technical or		Course II—Advanced Technical or	
Science Option	3-4	Science Option	3-4
*BO 103, General Botany	4	ZO 103, General Zoology	4
Elective	3		
	<hr/> 19-20		<hr/> 16-17

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Course V—Social Sciences or		Course VI—Social Sciences or	
Humanities Concentration	3	Humanities Concentration	3
Course III—Advanced Technical or		Course IV—Advanced Science or	
Science Option	3-4	Technical Option	3-4
Humanities or Social Science		Humanities or Social Science	
Elective	3	Elective	3
Seminar	3	Seminar	3
Elective	3	Elective	3
	<hr/> 15-16		<hr/> 15-16

Department of Economics

Professor ERNST W. SWANSON, Head of the Department

Professors:

E. A. FAILS, B. M. OLSEN, T. W. WOOD

Associate Professors:

A. J. BARTLEY, L. A. DOW, CLEON HARRELL

Assistant Professors:

GERALD GARB, W. R. HENDLEY, T. H. PARK, C. S. SHEN, O. G. THOMPSON

Instructors:

M. M. EL-KAMMASH, M. A. HUNT, W. J. STOBER

Adjunct Professor:

D. R. DIXON

The Department of Economics seeks to help students understand the economic process, the nature and functioning of the economy and useful

* May be alternated with physics if further work in biology is anticipated.

approaches to and methods of economic analysis. In pursuance of this end the department has a representative offering of courses in the major fields of economic theory, applied economics and business operation at both undergraduate and graduate levels. Several courses have been designed primarily for students working toward advanced degrees in the technical schools. Members of the department are engaged in extension work and economic research.

Department of English

Professor L. C. HARTLEY, Head of the Department

Professors:

A. M. FOUNTAIN, H. G. KINCHELOE, R. P. MARSHALL, JACK SUBERMAN, R. G. WALSER

Associate Professors:

P. H. DAVIS, H. G. ELDRIDGE, F. H. MOORE, GUY OWEN, E. H. PAGET, D. J. RULFS, A. B. R. SHELLEY L. H. SWAIN, L. R. WHICHARD, R. B. WYNNE

Assistant Professors:

LARRY CHAMPION, MAX HALPEREN, SADIE J. HARMON, A. S. KNOWLES, B. G. KOONCE, JACK PORTER, NORWOOD SMITH, PORTER WILLIAMS, JR.

Instructors:

D. P. ALLEN, P. E. BLANK, J. G. EASLEY, HAZEL GRIFFIN, HARRY HARGRAVE, EUGENE HOLAHAN, W. W. MARTIN, NANCY G. MORGAN, HOWARD PEARCE, R. B. WHITE

Special Lecturer:

MARY C. WILLIAMS

The English Department has as its primary objective instruction in the basic communication skills: reading, writing, and speaking. To this end it offers a course in the fundamentals of composition which attempts to combine the three skills, plus special courses in business and technical communication and in speech. As an additional function, the department provides a core of humanistic studies consisting of courses in English, American, and world literature. The principal objective of these courses is to make the student aware of his cultural heritage and to develop in him good habits of leisure reading.

Department of History and Political Science

Professor P. W. EDSALL, Head of the Department

Professors:

M. L. BROWN, F. V. CAHILL, JR., J. T. CALDWELL, A. HOLTZMAN, STUART NOBLIN, L. W. SEEGER

Associate Professors:

L. W. BARNHARDT, B. F. BEERS, W. J. BLOCK, J. L. HELGUERA

Assistant Professors:

M. S. DOWNS, C. F. KOLB, O. H. ORR, JR.

Instructors:

J. C. FARRELL, STANLEY SUVAL

An understanding of the historical background of our times and of political principles and governmental systems is expected of the educated man. The Department of History and Political Science, by giving specially designed courses, both elective and required, seeks to aid students in gaining this understanding. While most courses offered in history and political

science are intended for undergraduates, the department offers graduate courses which may be built into the programs of students working for advanced degrees. It also cooperates with the College Extension Division in making selected courses available to adults who do not reside on the State College campus.

Department of Modern Languages

Professor G. W. POLAND, Head of the Department

Associate Professors:

F. J. ALLRED, S. T. BALLENGER

Assistant Professors:

RUTH B. HALL, H. L. TITUS

Instructors:

B. S. HOWARD, S. E. SIMONSEN

The Department of Modern Languages provides instruction in French, German, Spanish, Italian, and Russian as well as special instruction in English for foreign students. It also offers courses in the literature and culture of these language areas.

The department cooperates with graduate and research programs by offering special courses for graduate students in connection with language requirements for advanced degrees and by providing translation service. Graduate students enrolled in technical and scientific courses translate projects in their field of major interest. Upon satisfactory completion of these projects, they are accepted as evidence of reading ability in the particular language. The translations are then made available to individuals or agencies.

Department of Philosophy and Religion

Professor W. N. HICKS, Head of the Department

Associate Professors:

PAUL A. BREDENBERG, W. LAWRENCE HIGHFILL, J. LEONARD MIDDLETON

Assistant Professor:

*W. CURTIS FITZGERALD, JR.

Instructor:

WILLIAM KURYLO

The Department of Philosophy and Religion provides basic courses in philosophy and religion for students in the several professional schools of the College. The courses have been expressly planned to serve fundamental educational purposes and include offerings in the areas of logic, history of philosophy, philosophy of science, philosophy of art, philosophy of religion, ethics, the Bible and its background, religious movements in the United States, and world religions.

Effort is made to relate and make effective application of theoretical knowledge and understanding, and personal challenge is extended to the student to seek fulfillment, not in passive conformity, but in duty freely accepted and unique creativity dared.

* On leave.

Department of Physical Education

Professor P. H. DERR, Head of the Department

Professor:

W. E. SMITH

Professor Emeritus:

JOHN F. MILLER

Associate Professors:

J. B. EDWARDS, HAROLD KEATING, J. F. KENFIELD, JR.

Assistant Professors:

J. L. CLEMENTS, N. E. COOPER, ARTHUR M. HOCH, W. R. LEONHARDT, J. H. LITTLE, F. J. MURRAY, W. H. SONNER

Instructors:

H. O. FLOYD, JR., M. S. RHODES, W. M. SHEA

The purpose of the Department of Physical Education is to make maximum contributions to the general welfare of the student by providing programs and conditions in which he may develop and maintain physical strength and stamina, relax tensions, acquire an appreciation for the importance of healthful living and develop knowledge and skills for recreation. The programs also provide situations in which the student may develop qualities of cooperation, leadership, and social poise.

To achieve these aims, the department serves two functions. It provides instruction and supervision for the participant in physical education in regular classes; and it offers opportunities for all students to participate in beneficial forms of physical exercise through the program in intramural athletics, which is administered by the department.

Department of Social Studies

Professor G. A. GULLETTE, Head of the Department

Professors:

C. I. FOSTER, J. R. LAMBERT

Associate Professors:

R. N. ELLIOTT, R. S. METZGER

Assistant Professors:

W. F. EDWARDS, A. K. LOWENSTEIN

Instructors:

R. V. BRICKELL, R. M. CORNISH, R. J. CLACK

The Department of Social Studies draws its staff from the various fields of the humanities and the social sciences. It contributes to the training of men whose professional competence is devoted to the public interest by offering courses especially designed to emphasize the close interconnections that bind liberal studies to the world of science and technology.

Department of Sociology and Anthropology

Professor SANFORD WINSTON, *Head of the Department*

Associate Professors:

E. H. JOHNSON, H. D. RAWLS

Assistant Professors:

HERBERT COLLINS, J. G. HARDEE, J. W. TOMLIN

Courses offered by the Department of Sociology and Anthropology fall into three overlapping areas: courses concerned with the general education of the student; supporting courses in those curricula in which a knowledge of society and human behavior is deemed essential; and courses given in conjunction with other departments which help prepare the student for specific types of professional activity upon graduation.

The general objective of courses in the department is to encourage the student as a citizen and as a professional person to see himself as a part of his society. It is believed that the student must understand something of the characteristics and functioning of group behavior within the urban-industrial milieu of western civilization. He is shown that the human being operates within a social world which is the result of long cultural development, and he is encouraged to see his relationship within the framework of society with the result that he conceives of his behavior as a part of a larger social framework. The importance of adjustment to life is emphasized in all classroom teaching as well as in conferences on individual problems.





School Of Physical Sciences and Applied Mathematics

ARTHUR CLAYTON MENIUS, JR., Dean
CAREY G. MUMFORD, Assistant to the Dean

Current events and the outlook for the future continue to emphasize the need for an increasing supply of high caliber scientists, mathematicians, and engineers. The School of Physical Sciences and Applied Mathematics is dedicated to helping to supply this need. In addition to the Departments of Chemistry, Experimental Statistics, Mathematics, and Physics, the operations of Physical Sciences Research, the Computing Center, and the Reactor Project were added to the school in 1961. The growth of the school since its formation in 1960 has reaffirmed the fact that strong educational and research opportunities in the basic sciences and mathematics are fundamentally necessary, and are important adjuncts to successful programs in the applied fields.

The mission of the School of Physical Sciences and Applied Mathematics at North Carolina State College is three-fold: the training of well qualified scientists and mathematicians; the technical support of curricula in agriculture, design, education, engineering, forestry, and textiles; and research in science and mathematics.

Facilities

The School of Physical Sciences and Applied Mathematics is fully equipped for instruction and research. Special equipment and laboratories associated with the departments of the school are a complete radio-chemistry laboratory; a low power homogeneous reactor and a heterogeneous reactor designed for 100 kw; a one million volt Van de Graaff accelerator; two analog computers, GEDA and Donner; and an IBM 1410 digital computer supplemented by access to the Univac 1105 at the University of North Carolina Computation Center at Chapel Hill. Other facilities on the campus available for teaching and research include an RCA electron microscope, complete X-ray laboratories with diffraction and radiographic equipment, and precision instrument shops.

Curricula

It is intended that the undergraduate degree for the school be Bachelor of Science with a major in chemistry, physics, applied mathematics or experimental statistics. The curricula of the Departments of Chemistry, Mathematics, Physics, and Statistics are so arranged as to have essentially a common freshman year. Because of this, a student entering any one of these curricula can, without penalty, change to another department in the

School of Physical Sciences and Applied Mathematics during his freshman year. This common year is outlined below.

Freshman Year in All Physical Sciences and Applied Mathematics Curricula

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, General Inorganic Chemistry.....	4	CH 103, General and Qualitative Chemistry	4
or		or	
CH 105, General Inorganic Chemistry.....	4	CH 107, General and Qualitative Chemistry	4
and		and	
CH 106, General Inorganic Chemistry Laboratory	1	CH 108, General and Qualitative Chemistry Laboratory	1
ENG 111, English Composition	3	ENG 112, English Composition	3
MA 102, Analytic Geometry and Calculus I	4	MA 201, Analytic Geometry and Calculus II	4
PE 101, Physical Education	1	PE 102, Physical Education	1
MS 101, Military Science I or		MS 102, Military Science I or	
AS 121, Air Science I	1	AS 122, Air Science I	1
Humanities	3	PY 205, General Physics I	4
or		or	
Natural Science	4	Natural Science	4
PSM 100, Orientation	0		
	<hr/> 16 or 17		<hr/> 17 or 18

The total number of hours required for graduation is to be a minimum of 135 hours which includes 8 hours of military science and physical education. Twenty-one semester hours are to be required in the humanities, exclusive of Freshman English. An additional requirement is one modern language.

Graduate Study

The Master of Science degree is offered by each department of the school with the doctorate available in mathematics, physics and statistics. The graduate programs are described in detail in the Graduate School Catalog.

Department of Chemistry

Professor RALPH CLAY SWANN, Head of the Department

Professors:

THOMAS GLENN BOWERY, GEORGE OSMORE DOAK, RICHARD HENRY LOEPPERT, WALTER JOHN PETERSON, WILLIS ALTON REID, COWIN COOK ROBINSON, PAUL PORTER SUTTON, SAMUEL B. TOVE, JOSEPH ARTHUR WEYBREW

Associate Professors:

DAVID MARSHALL CATES, ALONZO FREEMAN COOTS, LEON DAVID FREEDMAN, FORREST WILLIAM GETZEN, LOUIS ALLMAN JONES, RICHARD COLEMAN PINKERTON, RAYMOND CYRUS WHITE

Assistant Professors:

FRANK BRADLEY ARMSTRONG, THOMAS JACKS BLALOCK, LAWRENCE HOFFMAN BOWEN, WILLIAM PRENTISS INGRAM, JR., GEORGE GILBERT LONG, EDWARD CARROLL SISLER

Instructors:

WILLIAM RODGER JOHNSTON, ELIZABETH HINES MANNING, JOHN WESLEY MORGAN, GEORGE MOTLEY OLIVER, MRS. GRAYE JOHNSON SHAW, THOMAS MARSH WARD

The principal objective of the Department of Chemistry is to provide sound basic training in chemistry and the related sciences. Emphasis is placed on aiding and encouraging creative thinking.

Curriculum

The curriculum for the Bachelor of Science degree in chemistry is designed to give the students fundamental training in mathematics and the biological and physical sciences with maximum instruction in chemistry. Graduates in chemistry are provided with a sound foundation for future graduate study.

The curriculum meets the requirements of the American Chemical Society for the training of professional chemists.

*Chemistry Curriculum

For the freshman year see page 202.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 221, Organic Chemistry I	4	CH 223, Organic Chemistry II	4
CH 222, Organic Chemistry Lab.	1	CH 224, Organic Chemistry Lab.	1
MA 202, Analytic Geometry and Calculus III	4	MA 301, Differential Equations	3
PY 206, General Physics	4	PY 207, General Physics	4
English	3	English	3
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II	1	AS 222, Air Science II	1
PE 201, Physical Education	1	PE 202, Physical Education	1
			<hr/>
	18		17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 431, Physical Chemistry I	3	CH 433, Physical Chemistry II	3
CH 432, Physical Chemistry Lab.	1	CH 434, Physical Chemistry Lab.	1
ML 103, Elementary German	3	CH 411, Analytical Chemistry I	4
Minor	3	ML 104, German Grammar and Prose Reading	3
Humanities	3	Minor	3
Free Electives	3	Humanities	3
	<hr/>		<hr/>
	16		17

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 413, Analytical Chemistry II	4	CH 501, Inorganic Chemistry I	3
Major	3	Minor	3
Minor	3	Humanities	3
Humanities	3	Free Electives	7
Free Electives	3		<hr/>
	<hr/>		16
	16		

* Chemistry majors are required to take CH 105, CH 106, CH 107, and CH 108. The Chemistry Department will recognize as a minor four semester courses in the biological sciences, engineering, mathematics, or physics. Any combination of four courses from two of these areas will constitute a "split" minor. The courses applied to a minor should exhibit the application of chemistry in the areas chosen. This sequence is to be chosen in consultation with the faculty adviser prior to the third year of study.

Department of Experimental Statistics

Professor J. A. RIGNEY, Head of the Department

Professors:

R. L. ANDERSON, *Graduate Administrator*, C. C. COCKERHAM, A. H. E. GRANDAGE, R. J. HADER, H. L. LUCAS, F. E. McVAY, D. D. MASON, R. J. MONROE, D. R. SHREVE, R. W. STACY, R. G. D. STEEL

Visiting Professor:

D. W. HAYNE

Adjunct Professors:

W. S. CONNOR, A. L. FINKNER

Professor Emeritus:

GERTRUDE M. COX

Associate Professors:

W. J. HALL, R. G. PETERSON, C. H. PROCTOR, W. W. G. SMART, T. D. WALLACE

Visiting Associate Professors:

J. C. KOOP, H. R. VAN DER VAART

Adjunct Associate Professor:

S. ADDELMAN

Assistant Professors:

J. O. RAWLINGS, F. J. VERLINDEN

Assistant Statisticians:

M. A. CIPOLLONI, J. H. MEADE, W. S. OVERTON, C. A. ROHDE, B. J. STINES, E. H. YEN

Statistics is a relatively new and rapidly expanding science. It is the body of scientific methodology which deals with efficient collection and presentation of data and with the general problem of drawing valid and reliable inferences from data. Early development of statistics occurred in the biological and social sciences. In recent years the use of statistical concepts and methodology has spread into virtually all areas of scientific endeavor, especially the physical sciences and engineering.

The Department of Experimental Statistics is part of the Institute of Statistics which also includes a Department of Biostatistics and a Department of Statistics at Chapel Hill. The Department of Experimental Statistics provides instruction, consultation and computational services on research projects, for other departments of all schools at North Carolina State College including the Agricultural Experiment Station. Governmental agencies and other institutions use the facilities of the department. The range and quality of the data handled furnish an excellent background for training students in the use of statistical procedures in such fields as the physical, biological and social sciences and in industrial development and engineering.

Opportunities

Most fields of research, development, production, and distribution are seeking persons trained in statistical methods and theory. Research groups are fast realizing the importance of statistics in planning experiments and in analyzing and computing results. Industry is placing increasing reliance on statistical methods to control the quality of goods in the process of manufacture and to determine the acceptability of goods already produced. Statistical procedures based on scientific sampling are becoming basic

tools for making weather forecasts, crop and livestock estimates, business trend predictions, opinion polls and the like.

A graduate in statistics will find abundant opportunities in any of the areas listed above—both in industry and with federal and state agencies.

Experimental Statistics Curriculum

For the freshman year see page 202.

Assuming BO 103 and PY 205 were elected during the freshman year, a typical program for the succeeding three years might be as follows:

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 202, Calculus II	4	MA 301, Differential Equations	3
PY 206, General Physics II	4	PY 207, General Physics III	4
EC 201, Economics	3	EC 202, Economics	3
Foreign Language	3	ZO 103, General Zoology	4
MS 201, Military Science	1	Foreign Language	3
PE 201, Physical Education	1	MS 202, Military Science	1
		PE 202, Physical Education	1
	<hr/> 16		<hr/> 19

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ST 361, Introduction to Statistics	3	ST 362, Introduction to Statistics	3
PSY 200, Introduction to Psychology	3	ST 302, IBM Laboratory	2
ENG 321, Scientific Writing	3	Minor	3
Minor	3	Humanities	3
Humanities	3	Free Electives	6
	<hr/> 15		<hr/> 17

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ST 421, Basic Statistical Theory	3	ST 422, Basic Statistical Theory	3
ST 515, Experimental Statistics		ST 516, Experimental Statistics	
for Engineers	3	for Engineers	3
Minor	3	Minor	3
Humanities	3	Humanities	3
Free Electives	3	Free Electives	4
Major Electives	3		
	<hr/> 18		<hr/> 16

Graduate Study

The Department of Experimental Statistics offers work leading to the Master of Science and Doctor of Philosophy degrees. Minor work may be taken in any of the wide variety of research programs on the campus. In addition, a cooperative arrangement with the Departments of Biostatistics and Statistics at Chapel Hill provides for minor work in health affairs and in statistical theory. Active participation in the graduate faculty by several of the staff at the Research Triangle Institute provides further

strength of staff and a wider variety of research experience available to graduate students.

The department has at least one staff member who consults with researchers in each of the following fields and who conducts his own research on statistical problems which are encountered: the various agricultural sciences, quantitative genetics, industry and engineering, physical sciences and social sciences. In addition there is active research in the general fields of experimental design and sample surveys.

Department of Mathematics

Professor JOHN W. CELL, Head of the Department

Professors:

R. C. BULLOCK, J. M. CLARKSON, W. J. HARRINGTON, M. ITOH, JACK LEVINE, C. G. MUMFORD, H. M. NAHIKIAN, *Graduate Administrator*, H. V. PARK, *Administrative Assistant*, D. R. SHREVE, R. A. STRUBLE, J. H. WAHAB, H. P. WILLIAMS, L. S. WINTON

Associate Professors:

H. C. COOKE, A. R. NOLSTAD, D. M. PETERSON, H. A. PETREA, H. E. SPEECE, H. VAN DER VAART, G. C. WATSON

Adjunct Associate Professor:

ROBERT T. HERBST

Assistant Professors:

V. R. BRANTLEY, E. J. CANADAY, D. L. GEORGE, D. J. HANSEN, C. F. LEWIS, C. H. LITTLE, JR., MORTON LOWENGRUB, R. A. MACKERRACHER, ARMSTRONG MALTBIE, L. B. MARTIN, JR., PETER SHAHDAN, J. B. WILSON

Instructors:

C. N. ANDERSON, DOROTHY L. BRANT, JOYCE CARAWAY, MARTHA J. GARREN, RUTH B. HONEYCUTT, JULIE G. MCVAY, D. E. NIXON, CARLOTTA P. PATTON, J. L. SOX, G. S. SPEIDEL, JR.

There is great need in industry and in the field of teaching for people trained in applied mathematics. The increasing use of both digital and analog computers and the shift to automation in industry have given rise to requirements for mathematics analysts. The Department of Mathematics offers opportunities in the elementary and advanced courses for the student to learn important concepts in mathematics and to apply these to situations in mathematically oriented areas.

Curriculum

The curriculum for the Bachelor of Science degree in applied mathematics is designed to provide the student with a sound foundation in mathematics and at the same time to give him a reasonable acquaintance with some other area of science or engineering in which mathematics is applied. Required courses are relatively few in number so that the individual needs of the student are met more readily. The individual curriculum can be designed either to fit the needs of a student for a position in industry or to provide him with a strong foundation for future graduate work.

Mathematics Curriculum

For the freshman year see page 202.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 202, Calculus and Analytic Geometry III _____	4	MA 301, Differential Equations _____	3
PY 206, General Physics II _____	4	PY 207, General Physics III _____	4
English Literature _____	3	**Humanity Elective _____	3
*Modern Language _____	3	*Modern Language _____	3
MS 201, Military Science II or		MS 202, Military Science II or	
AS 221, Air Science II _____	1	AS 222, Air Science II _____	1
PE 201, Physical Education _____	1	PE 202, Physical Education _____	1
Humanity Elective _____	3	Free Elective _____	3
	<hr/> 19		<hr/> 18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 403, Fundamental of Algebra _____	3	MA 405, Introduction to Determinants and Matrices _____	3
MA 441, Advanced Calculus I _____	3	MA 512, Advanced Calculus II _____	3
Statistics _____	3	Statistics _____	3
****Minor _____	3	****Minor _____	3
**Humanity Elective _____	3	Humanity Elective _____	3
Free Elective _____	3	Free Elective _____	3
	<hr/> 18		<hr/> 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
***Major _____	6	***Major _____	6
****Minor _____	3	****Minor _____	3
**Humanity Elective _____	3	**Humanity Elective _____	3
Free Elective _____	3	Free Elective _____	2
	<hr/> 15		<hr/> 14

Graduate Study

The faculty of the Department of Mathematics feels that a student entering the Graduate School to work toward the degree of Master of Science in applied mathematics should be well grounded in mathematics through two semesters of advanced calculus and two of modern algebra (or the equivalent). In addition, he should have a strong background in mechanics, physics, or in some other mathematically oriented area.

Minimum course requirements for the degree of Master of Science in applied mathematics are 30 hours of which six to nine hours must be selected from a minor field which is usually some branch of engineering,

- * The particular language chosen (French, German, or Russian) is subject to the approval of the department head.
- ** These junior-senior humanities generally should be chosen from humanities offerings at the 300 level and above, or from modern language offerings beyond the required courses.
- *** To be chosen from mathematics offerings at the 400-500 level.
- **** The minor field is, as a minimum, a four-course sequence from one other area, and these courses normally should exhibit the application of mathematics in this area. They are not to include any course from this area that is otherwise applied in satisfying the requirements of this curriculum. This minor is to be chosen in consultation with the student's adviser prior to or during the junior year and this choice is subject to the approval of the department head.

physics, or statistics. In addition to the above requirements, the student must write a thesis and show a satisfactory reading knowledge of a foreign language.

For more detailed information and for requirements for the Doctor of Philosophy degree see the Graduate School Catalog.

Department of Physics

•*Burlington Professor* RAYMOND L. MURRAY, *Head of the Department*

Burlington Professor:

WILLARD H. BENNETT

Professors:

W. O. DOGGETT, HARRY C. KELLY, FORREST W. LANCASTER, J. S. MEARES, A. C. MENIUS, JR.,

R. H. SNYDER, NEWTON UNDERWOOD, A. W. WALTNER

Associate Professors:

••J. T. LYNN, *Graduate Administrator*, R. F. STAINBACK, E. JACK STORY

Assistant Professors:

E. J. BROWN, WILLIAM P. BUCHER, GROVER C. COBB, JR., R. L. DOUGH, WILLIAM R. DAVIS,

RAOUL M. FREYRE, D. H. MARTIN, M. R. MOSS, J. Y. PARK

Instructors:

HUBERT L. OWEN, J. T. SPENCE

Physics is a fundamental science of observations, measurements and mathematical description of the particles and processes of nature. Included is the study of classical physics—mechanics, heat, sound, electricity, magnetism and optics—plus modern physics embracing atomic, ionic, and nuclear particles and phenomena. In addition to extending our basic knowledge of the universe, the science of physics provides an attack on problems of importance in modern technology. The variety of the contributions made by physicists is indicated by these typical activities—discovery and measurements on new particles of nature; the invention and use of new instruments to probe interplanetary space; the prediction of behavior of nuclear chain reactors; the study of processes fundamental to the release of thermonuclear energy; and research on missiles, satellites and space craft.

Programs

The Physics Department provides courses in fundamental physics and in several specializations relating to nuclear reactions, reactor analysis, radioactivity, radiological health and safety, electrical discharges in gases, and space phenomena.

Opportunities

The demand for graduates with fundamental and specialized knowledge in physics has grown rapidly in recent years. The demands for scientists are currently greatest in the nuclear energy and missile and space fields, in which large research and development programs are in progress. Positions are available to qualified individuals in government laboratories, industrial research facilities and in universities.

* On leave

•• Acting head

Physics Curriculum

Typical curricula emphasizing fundamental physics and nuclear science are shown below.

For the freshman year see page 202.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 206, General Physics	4	PY 207, General Physics	4
MA 202, Analytic Geometry and Calculus III	4	MA 301, Differential Equations	3
Foreign Language	3	English Elective	3
Humanities Elective	3	Foreign Language	3
PE 201, Physical Education	1	Humanities Elective	3
MS 201, Military Science II or		PE 202, Physical Education	1
AS 201, Air Science II	1	MS 201, Military Science II or	
		AS 201, Air Science II	1
	<hr/> 16		<hr/> 18

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 401, Mechanics or		PY 402, Heat and Sound or	
PY 403, Electricity and Magnetism	4	PY 404, Optics	4
PY 407, Modern Physics	3	PY 410, Nuclear Physics I	4
MA 441, Advanced Calculus I	3	Mathematics	3
SS 301, Contemporary Civilization	3	SS 302, Contemporary Civilization	3
Minor	3	Minor	3
Free Elective	3		
	<hr/> 19		<hr/> 17

Senior Year

(Fundamental Physics Emphasis)

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 401, Mechanics or		PY 402, Heat and Sound or	
PY 403, Electricity and Magnetism	4	PY 404, Optics	4
Mathematics	3	Mathematics	3
SS 491, Contemporary Issues	3	PHI 405, Foundations of Science	3
Minor	3	Minor	3
Free Electives	6	Free Elective	3
	<hr/> 19		<hr/> 16

Senior Year
(Nuclear Science Emphasis)

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 510, Nuclear Physics II	4	PY 520, Physical Measurements in Radioactivity	3
PY 518, Radiation Hazards and Protection	3	PY 530, Introduction to Nuclear Reactor Theory	3
Mathematics	3	PY 531, Nuclear Reactor Laboratory	1
SS 491, Contemporary Issues	3	Mathematics	3
Free Electives	6	PHI 405, Foundations of Science	3
	19	Free Elective	3
			16

Graduate Study

The Department of Physics provides programs of advanced study in applied physics leading to the master's and doctor's degrees. A research thesis is required for each degree. A comprehensive understanding of classical and modern physics is stressed, with study in either nuclear science or fundamental physics, nuclear reactor theory, radiological health and safety, plasma physics, space physics, and the theory of fields. Work in the student's minor field will generally be taken in other departments of the School of Physical Sciences and Applied Mathematics. Research facilities available include a 10-kilowatt heterogeneous reactor, a 100-watt water boiler reactor, a natural uranium sub-critical assembly, a one-Mev Van de Graaff accelerator, and high speed computing equipment. Plasma laboratories with precision equipment are available. Experimental research is in progress on neutron diffusion by pulsed methods, high current particle streams, and simulation of space conditions. Research and teaching assistantships are available to qualified graduate students.

Computing Center

Professor D. R. SHREVE, Director

An IBM 1410 digital computer is located in the Computing Center in Patterson Hall. The computer, a card-type system with 40,000 characters of core storage, is used for faculty and student research, and for instruction in scheduled credit courses and non-credit short courses.

Credit courses in computing are supplemented by instruction in computer programming included in courses offered by several departments in the College, by a continuous offering of non-credit short courses, and by use of IBM 1620 computers, and a variety of analog computers in several other departments.

Physical Sciences Research

E. J. STORY, *Head*

Research Engineer:

M. A. KOONTZ

Research Associate:

B. E. LEONARD

The Burlington Nuclear Laboratories building, which houses a 100 kilowatt heterogeneous research reactor, plus 32 rooms including research laboratories, offices and shops, is the school's major facility for research in nuclear physics, radiation, and nuclear sciences. The facilities also include a 100 watt homogeneous reactor, a natural uranium subcritical assembly, and a considerable investment in research equipment, principally nuclear electronics.

Other major facilities in the School of Physical Sciences and Applied Mathematics include plasma physics laboratories, a 1 Mev Van de Graaff accelerator, chemistry and radioisotope laboratories, a spectroscopy laboratory and analog computers.

In addition to contracted research for industrial firms, support is received from federal agencies.



School Of Textiles

MALCOLM E. CAMPBELL, Dean
JAMES W. KLIBBE, Academic Coordinator

The manufacture of textiles has become one of the world's leading industries. North Carolina's textile industry now ranks first in the nation in terms of employment and value of manufactured products. Furthermore, the textile industry of the State and the area is broadly diversified, ranging from the production of man-made fibers to finished garments, from cotton spinning mills to finishing plants, from woven goods to all types of knitted materials, and from suppliers to machine manufacturers.

Because of the tremendous expansion in the scope of textiles it has become necessary to utilize the talents of the chemist, the physicist, the engineer, the businessman, as well as the traditional spinner, weaver, and dyer.

The School of Textiles offers several programs at both the undergraduate and graduate levels in the applied sciences underlying the production and finishing of textile products. Textile research supplements and supports graduate study.

The purpose of the school is fourfold: to educate men and women for professional service in all phases of the textile industry; to develop their capacities for intelligent leadership; to aid in the economic development of the textile industry; and to cooperate with the textile industry in improving through scientific research, manufacturing efficiency and the quality and value of manufactured products.

In the educational program, for administration, the School of Textiles is organized into three departments: Textile Technology, Knitting Technology, and Textile Chemistry.

Curricula

The School of Textiles offers two basic four-year curricula, textile technology and textile chemistry. After the freshman year these two programs differ; however, there is sufficient similarity in the first year to permit the student to defer the final decision as to his major field of study until the end of the freshman year.

The over-all program of the textile technology curriculum includes course work in the basic sciences and humanities as well as in the professional area of textiles. The arrangement of stems within the curriculum permits for specialization in various areas which lead in one direction to a high concentration of work in the basic sciences and in the other direction to greater depth in the study of economics. The various avenues of

selection open to the students are as follows, with specialization as indicated: fiber and yarn technology, fabric technology, general textiles, knitting technology, and textile management.

The latter program provides substantial depth in the fundamentals of economics as well as work in the basic sciences, humanities, and professional textile areas. It is believed that this program provides a firm foundation on which to develop business skills. As with the other programs in textile technology, the student has further choice within the management program depending on his desire to follow micro, macro, or quantitative economics.

Textile chemistry is designed to give the student a fundamental education in chemistry with special emphasis on the application of this science to textiles. The textile chemistry curriculum places emphasis on chemical fundamentals so that those students who complete this program with a high degree of excellence are adequately prepared for graduate study either in pure or applied chemistry. Similarly, students who complete the program in any one of the stems in textile technology with a high degree of excellence would be acceptable for graduate study in many different areas.

Inasmuch as the professional work in textiles is concentrated to a great extent in the last two years in the student's program, it is quite possible for students from either junior colleges or other institutions of higher learning to transfer to the School of Textiles with a minimum loss of time.

Degrees

Upon completion of programs in textile technology, the degree of Bachelor of Science in textile technology is conferred. Upon completion of the program in textile chemistry, the degree of Bachelor of Science in textile chemistry is conferred.

The degree of Master of Science in textile technology or of Master of Science in textile chemistry is offered for the satisfactory completion of a minimum of one year of graduate study in residence. Candidates for the degree of Master of Science enter and are enrolled in the Graduate School of the College. For general requirements, consult the Graduate School Catalog.

Facilities

The Nelson Textile Building, erected in 1939 and greatly enlarged in 1950, was designed to coordinate teaching and laboratory facilities. It houses one of the most modern and best-equipped textile institutions in the world. The Department of Textile Chemistry is housed in remodeled Mangum Hall, one hundred yards south of the Nelson Textile Building.

Opportunities

Technological advances in textile fibers and manufacturing techniques have created a tremendous demand for men technically trained in textile

colleges. For the past several years, the School of Textiles has had a demand for graduates greater than it could supply. Its graduates have entered the textile industry at salaries equal to or better than those offered in many other industries.

Graduates of the school are equipped to enter many fields related to textiles, such as manufacturing, sales or research; and alumni of the school hold responsible positions in each of these fields. Many are now mill presidents or general managers.

Some of the specific fields selected by State College textile graduates are production of yarns, production of woven and knitted fabrics, dyeing and finishing, industrial engineering, quality control, designing, styling, merchandising, converting, research, cost and production control, and sales of equipment and materials to the textile industry.

To assist in the placement of students and alumni and to facilitate interviews by textile firms, the school maintains a full-time placement director.

Inspection Trips

For certain of the textile courses offered, it is desirable for the student to see the manufacturing process under actual operating conditions. When possible, trips are arranged for student groups to visit outstanding manufacturing plants. Participation in the trips is required; transportation costs and other travel expenses, while held to a minimum insofar as possible, must be paid by the student.

Short Courses

It is the policy of the school to offer course training for textile mill men who have a limited amount of time to spend at the school. These courses are offered when a sufficient demand for them develops. The subject matter is selected to meet the needs of the group.

Distinguished Professorships

The School of Textiles has four sponsored professorships. These are made possible by funds contributed to the North Carolina Textile Foundation, Inc., and especially designated to pay a part of the annual salary of the professor selected to fill the position.

The four professorships, together with the year of establishment and the name of the incumbent for each, are as follows:

Burlington Industries Professorship of Textiles 1946, Dame S. Hamby, professor of textiles, Department of Textile Technology.

Chester H. Roth Professorship of Knitting Technology 1948, William Edward Shinn, professor of textiles and head of Department of Knitting Technology.

Abel C. Lineberger Professor of Yarn Manufacturing 1948, Elliot Brown Grover, professor of textiles and head of Department of Textile Technology.

Edgar and Emily Hesslein Professorship of Fabric Development 1948.
(open)

Department of Knitting Technology

Professor WILLIAM E. SHINN, Head of the Department and Director, Knitting Research

Assistant Professor:

H. M. MIDDLETON, JR.

Instructor:

PETER LI

In recognition of the great importance of knitting and the other needle arts in the industrial life of this section, the Department of Knitting Technology makes available to this branch of the textile industry, personnel trained in the fundamentals and practices underlying the production of knitted textiles.

Curriculum

Knitting technology students follow the textile technology curriculum and elect Stem 4. For a list of the curriculum by years see pages 223 and 224.

Facilities

The laboratories of the Knitting Technology Department, organized and equipped for instruction in many phases of the knit-goods industry, are grouped as follows:

Seamless Hosiery

Equipment for instruction in seamless hosiery production includes representative types of machines arranged in two groups. The more elementary types, including ribbers and plain hosiery machines with the elementary attachments such as stripers, reverse plating and rubber top attachments, are arranged together for beginning students. The more advanced types are grouped together for advanced students. This line includes advanced rib type machines, Komets, Banner Wrap Reverse, several types of float stitch machines, and machines for the manufacture of hosiery with solid color patterns.

Nylon Hosiery

This section is equipped with full-fashioned hosiery knitting machines of modern types, in 45-gauge, 51-gauge, 54-gauge, and 66-gauge. There is provided also three 400-needle women's nylon hosiery machines of the circular type. This equipment forms the basis for instruction in the general course in hosiery manufacture and for the more advanced instruction in full fashioned hosiery production. Equipment for the looping and seaming of hosiery, for pre-boarding, dyeing and finishing of fine hosiery is provided in separate rooms.

Circular Knitwear

A wide assortment of large diameter fabric knitting machines is provided for demonstration and instruction in the production of cloth for both underwear and outerwear. This group includes latch needle and spring needle types for jersey, rib, interlock and Jacquard fabric.

Garment Cutting and Seaming

A laboratory for experimental garment design and manufacture has been set up with modern power cutting equipment and many types of industrial sewing machines for producing garments for both outerwear and underwear. This unit is supplemented by knit goods finishing equipment located in the hosiery and knitwear finishing laboratory.

Warp Knitting, Flat Knitting

The knitting department laboratories include eight warp knitting machines of the tricot and raschel types. These machines furnish the basis for instruction in the design analysis, and production of warp knitted fabrics. A collection of fabrics and several winding and warp preparation machines make it possible to process a variety of materials. Flat machines of the V-bed and links-and-links class are employed for instruction in the production of heavier knitwear such as sweaters.

Knit Goods Finishing

Devoted entirely to experimental work in hosiery and knit goods finishing, this laboratory contains modern equipment for pre-boarding, dyeing and finishing machinery, a knit goods calendar for finishing knitted tubing, and a fabric brush.

Department of Textile Chemistry

Professor HENRY A. RUTHERFORD, Head of the Department and Director, Chemical Research
Professor:

K. S. CAMPBELL

Associate Professors:

A. C. HAYES, D. M. CATES, *Associate Director, Chemical Research*

The purpose of the Department of Textile Chemistry is to instruct students in the chemistry of natural and synthetic fibers, and in the theory and practice of scouring, bleaching, dyeing, finishing and printing of yarns and fabrics; to conduct laboratory experimental work demonstrating the principles set forth in lecture periods; to cooperate with the mills of the State in solving problems relating to the wet processing of textile materials.

Curriculum

Two recent changes in the curriculum in textile chemistry have resulted in a strengthening of the program. In the senior year, the student is given the option of electing a course of study which includes physical

chemistry or may in its place elect a stem of courses in textile technology. In the latter, three areas are provided which furnish depth in quality control, fabric technology, or yarn technology. A student may elect also a three-course sequence of a minimum of nine semester hours in psychology, industrial engineering, or from the School of General Studies.

Students who expect to pursue a course of graduate study are urged to take the chemistry option. The technology option is primarily for students who expect to go into production.

In either option, the curriculum places emphasis on the fundamentals of chemistry. Adequate background in social sciences and humanities is also provided.

Graduate Studies

A master's degree in textile chemistry is offered for the satisfactory completion of one year of graduate study in residence. The program in textile chemistry and its related area, polymer science, is intended to provide professional training at the graduate level. The student with a bachelor's degree in chemistry or chemical engineering will generally have the academic background to undertake it. The student with a major in physics may desire to enroll in one or two undergraduate courses in chemistry to erase certain deficiencies.

Five courses, that are described in the section on Description of Courses, (TC 403, 404; TC 511, 512; TC 605; and TC 606), are the core of the education plan at the graduate level. The selection of courses beyond the ones mentioned depends on the student's interest and the nature of his thesis research. The objective is to stimulate basic research and to train scientists in the general field of fiber and polymer chemistry, with proper emphasis on the supporting sciences. Although fiber-forming polymers are emphasized, the program is broad in scope, providing an opportunity for training and research in general principles in the polymer field, as well as advanced study in chemistry, physics, and mathematics.

Fellowships and assistantships are available for qualified students.

Facilities

Facilities available in textile chemistry follow:

Dyeing Laboratory

This is a complete laboratory with generous provision for bench space, equipment storage facilities, utilities and steam baths. It is used for all laboratory work dealing with chemical properties of textiles, dye synthesis, color matching and all types of dyeing.

Dye House

In this room is assembled a collection of dyeing and finishing machinery for instructional and experimental purposes. Obtained over the last few years, the equipment includes a singeing machine, a continuous dyeing range of the pad-steam type, a Williams unit, a du Pont-type continuous

bleaching unit, four package dyeing machines, a dye beck, dye jig, rotary hosiery dyeing machine, piece goods dyeing and finishing units utilizing dry cans, enclosed tenter frame and a continuous loop drying and curing unit supplied with both steam and gas-fired heat sources and a laboratory calendar.

Research and Textile Chemical Analysis

Six laboratories equipped for chemical research on fibers and on textile chemical specialties are available for use by advanced undergraduate students working on special problems and for research. Equipment includes a reflectometer, a spectrophotometer with all supplementary apparatus, colorimeters and the common testing equipment used for evaluation and for determining color-fastness, wash-fastness, etc., of dyed fibers and fabrics.

Textile Chemistry Curriculum

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ENG 111, English	3	ENG 112, English	3
CH 105, Chemistry	4	CH 107, Chemistry	4
MA 101, Mathematics	5	MA 102, Mathematics	4
HI 252, U. S. History	3	TX 221, Fundamentals of Textiles	3
*MS 101, Military Science I		ME 101, Engineering Graphics	2
or		*MS 102, Military Science I	
*AS 121, Air Science I	1	or	
*PE 101, Physical Education	1	*AS 122, Air Science I	1
		*PE 102, Physical Education	1
	17		
			18

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
MA 211, Calculus	3	MA 212, Calculus	3
PY 211, Physics	4	PY 212, Physics	4
CH 221, Organic Chemistry	4	**English Elective	3
TX 281, Fiber Quality	3	CH 223, Organic Chemistry	4
*MS 201, Military Science II		TX 261, Fabric Structure	3
or		*MS 202, Military Science II	
*AS 221, Air Science II	1	or	
*PE 201, Physical Education	1	*AS 222, Air Science II	1
		*PE 202, Physical Education	1
	16		
			19

* Students excused from military or air science and/or physical education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

** If approved in advance, students who average C or above on composition, English 111, 112 may substitute 6 credits of modern languages.

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
•English Elective _____	3	PS 201, American Government _____	3
••Humanities, Economics or Social Science _____	6	Humanities or Economics _____	3
ST 361, Introduction to Statistics _____	3	TX 327, Textile Testing _____	4
TC 303, Textile Chemistry III _____	3	CH 215, Quantitative Analysis _____	4
Electives _____	3	TC 304, Textile Chemistry III _____	3
	<hr/> 18	Electives _____	<hr/> 3
			<hr/> 20

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
TC 403, Textile Chemical Technology _	3	TC 404, Textile Chemical Technology _	3
TC 405, Textile Chemical Tech. Lab. _	2	TC 406, Textile Chemical Tech. Lab. _	2
TC 511, Chemistry of Fibers _____	3	TC 501, Seminar in Textile Chemistry _____	2
TC 412, Textile Chemical Analysis _____	3	TX 581, Instrumentation _____	3
Electives _____	3	Electives _____	3
CH 431, Physical Chemistry (1) _____	3	CH 433, Physical Chemistry (1) _____	3
or		or	
Stem Hours (See below) (2) _____	3	Stem Hours (See below) (2) _____	4
	<hr/> 17		<hr/> 16 or 17

(1) Only for students electing chemistry option.

(2) Only for students electing technology option.

Credits Required—Freshman year, 35; sophomore year 35; junior year 38; senior year, Physical Chemistry Option 33; total 141. Senior year Technology Stem Option, 34; total 142.

Stem Requirements

<i>Stem 1. Quality Control</i>	<i>Credits</i>	<i>Stem 2. Fabric Technology</i>	<i>Credits</i>
TX 521, Textile Testing II _____	3	TX 365, Fabric Technology _____	4
TX 522, Textile Quality Control _____	3	TX 575, Fabric Analytics and Characteristics _____	3
Transfer to free electives _____	1		
	<hr/> 7		<hr/> 7

<i>Stem 3. Yarn Technology</i>	<i>Credits</i>
TX 303, Fiber and Yarn Technology _	4
TX 430, Continuous Filament Yarns or	
TX 436, Staple Fiber Processing _____	3
	<hr/> 7

Stem 4. General

Students electing this stem must take a three-course sequence totaling a minimum of nine semester hours. The sequence will generally be selected from courses in psychology, industrial engineering, or from the School of General Studies. The sequence must be approved by the student's adviser.

* If approved in advance, students who average C or above on composition, English 111, 112 may substitute 6 credits of modern language.

•• Students electing Stem 4 may use these credits in conjunction with the stem hours to take a three-course sequence in psychology, industrial engineering, or economics.

Department of Textile Technology

Professor ELLIOT B. GROVER, *Head of the Department and Textile Research*

Professors:

J. F. BOGDAN, *Director, Processing Research*, D. S. HAMBY, J. A. PORTER

Associate Professors:

W. E. MOSER, J. E. PARDUE, W. C. STUCKEY, JR.

Assistant Professors:

E. B. BERRY, J. W. KLIBBE, W. E. SMITH, R. E. WIGGINS

Instructors:

I. A. BIRKAN, JAMES A. KING, L. T. LASSITER, W. K. LYNCH, H. I. MAKHLOUF

The purpose of the Department of Textile Technology is to instruct students in the theory and fundamental concepts, at both the basic and advanced levels, of fiber properties and fiber processing through yarns and fabrics. This is accomplished through the systematic study of the engineering properties of both the materials being processed and of the equipment involved in manufacturing. In addition, the department is engaged in research, with the support for the basic areas of work coming from college funds, and applied research through the sponsors of the work. Not only faculty, but graduate and, when practical, undergraduate students are encouraged to participate in the research programs.

Curriculum

The curriculum in textile technology involves a basic education for the first two years in the physical sciences, humanities, and social sciences. After the student has completed this phase of his education, he is then taught the application of the fundamental sciences to the areas of textile technology.

The textile technology curriculum represents a new approach to textile education. It is directed towards a common first year within the school with standardized basic requirements in physical sciences. The major portion of course work in textile technology is deferred to the junior and senior years in order to provide the best possible background for students before entering the major field.

The primary objective of the textile technology curriculum is to provide as general an education as possible and at the same time to prepare the graduate for profitable employment in the textile industry. This is accomplished through an integration of physical sciences and the application of the sciences and economics to the field of textiles.

In addition to the wide selection of basic sciences, the student also has the opportunity for diversification within the School of Textiles. The curriculum offers depth in such selected areas as fiber and yarn technology, fabric technology, knitting technology, general textiles, and textile management.

Graduate Studies

The Department of Textile Technology offers a graduate program leading to a degree of Master of Science in textile technology. This program

is designed for students interested in advanced study directed toward individual research and investigations, and is so developed that students may major in the field of textile technology and minor in approved areas such as statistics, industrial engineering, and textile quality control. A limited number of fellowships and scholarships are available to students who qualify.

Facilities

The facilities of the Department of Textile Technology are subdivided into respective areas for processing cotton and other short staple fibers; woolen, worsted and long staple synthetic fibers; continuous filament yarns; warp preparation and slashing; cam, dobby, and jacquard weaving; physical testing; and applied research laboratories.

Cotton and Short Staple Synthetics

This area is complete in respect to the most modern of opening, picking, carding, combing, drawing, roving, spinning, winding, and twisting equipment. The laboratory facilities are kept up-to-date which enables the school to maintain one of the most complete and modern facilities of this type in the world.

Woolen, Worsted, and Long-Staple Synthetic Fibers

A laboratory is set up for the processing of wool and long-staple synthetic fibers and blends. Included in the equipment is a Davis and Furber Wool Unit, complete from machinery to handle blending through spinning. Another set of machinery in this laboratory is designed to process the longer staple natural and synthetic fibers on the American worsted and new fiber systems. Tow-to-top machines, rectilinear combs, intersecting gills, wide ratch roving and spinning frames, and other supplemental equipment permit the processing of these fibers in many commercially oriented paths into spun yarns.

Continuous Filament Yarns

The continuous filament laboratory has the complete range of equipment necessary for the processing of thrown yarn and includes: soaking tub, extractor, dryer, twist-setting oven, spooler, upstroke twisters, doubler twister, quill winder, cone winders, and nylon sizing machine, plus supplementary equipment such as a texturizing machine.

Warp Preparation and Slashing

The equipment for preparing yarn for weaving includes a modern high speed warper, rayon-type slasher, and a small scale experimental slasher, as well as auxiliary equipment. There is also a silk-type combination warper and beamer used for making short warps for student instruction. There is a separate room for drawing in warps.

Cam, Dobby, and Jacquard Weaving

The weaving facilities are subdivided into three laboratories: cam, jacquard, and dobby weaving. On this equipment instruction is given in how to produce such fabrics as print cloths, denims, sateens, gingham, fancy shirting, dobby weave dressing and drapery materials, pile, leno and jacquard fabrics, woven from natural and synthetic fibers. All weave rooms are completely humidified.

Physical Testing

There are three separate air-conditioned laboratories, two of which are used for teaching and undergraduate student work and another for industrial research and graduate student research.

The laboratories contain all equipment for the physical testing of fibers, yarns and fabrics. Included in the equipment are a complete range of fiber testing equipment, three Instron Testers, several torsion and other types of balances, several combination skein and fabric breaking machines, inclined plane testers, single strand pendulum testers, Uster dynamometer, bursting strength testers, drying ovens, abrasion machines, twist testers, hydrostatic pressure tester, automatic reels, permeability testers, eight evenness testers, three Uster spectrographs, and many other type of laboratory equipment, including both commercial and special instruments developed at the school. In addition, the laboratory contains microscopes, cross sectioning devices and equipment for photomicrography. A dark-room containing the necessary equipment for photographic work is also available.

Applied Research Laboratories

Four separate laboratories for applied research in fiber processing and weaving are located in this department. These laboratories are completely equipped and designed for research by students and faculty in the areas of fiber processing, warp preparation and weaving.

Textile Technology Curriculum

(Fiber and Yarn Technology, Fabric Technology, General Textiles, and Knitting Technology Stems)

Freshman Year			
<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, Chemistry	4	CH 103, Chemistry	4
*MA 101, Mathematics	5	*MA 102, Mathematics	4
ENG 111, English	3	ME 101, Engineering Graphics	2
HI 252, U. S. History	3	ENG 112, English	3
**MS 101, Military Science I		TX 221, Fundamentals of Textiles	3
or		**MS 102, Military Science I	
**AS 121, Air Science I	1	or	
**PE 101, Physical Education	1	**AS 122, Air Science I	1
	17	**PE 102, Physical Education	1
			18

* Students below a selected cut-off point in placement tests in mathematics will take Mathematics, MA 111, 112 and one more hour of free electives. In addition, they must take either Stem 3 or 4.

** Students excused from military or air science and/or physical education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, and Sociology.

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 201, Physics _____ and _____	5	PY 202, Physics _____ and _____	5
MA 201, Calculus _____ or _____	4	MA 202, Calculus _____ or _____	4
PY 211, Physics _____ and _____	4	PY 212, Physics _____ and _____	4
*Electives from Schedule A _____	3	*Electives from Schedule A _____	4
**English _____	3	Humanities or Economics _____	3
PS 201, American Government _____	3	TX 281, Fiber Quality _____	3
TX 261, Fabric Structure _____	3	***MS 202, Military Science II or _____	
***MS 201, Military Science II or _____		***AS 222, Air Science II _____	1
***AS 221, Air Science II _____	1	***PE 202, Physical Education _____	1
***PE 201, Physical Education _____	1		
	<hr/> 18 or 20		<hr/> 16 or 17

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
**English _____	3	TX 327, Textile Testing _____	4
ST 361, Statistics _____	3	Free Electives _____	3
TX 303, Fiber and Yarn Tech. _____	4	Stem Hours _____	8
TC 201, Textile Chemistry I _____	2	****Elective from Schedule A _____	3
TX 365, Fabric Technology _____	4		
TX 342, Knitting Principles _____	2		
	<hr/> 18		<hr/> 15 or 18

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
Humanities _____	3	Social Sciences _____	3
TX 581, Instrumentation _____	3	TX 485, Mill Design and Organization _____	3
TC 307, Textile Chemistry _____	4	Free Electives _____	6
TX 442, Knitted Fabrics _____	3	Stem Hours _____	5
Free Electives _____	3		
Stem Hours _____	3		
	<hr/> 19		<hr/> 17

Credits required—freshman year, 33; sophomore year, 36; junior year, 36; senior year, 36; total hours, 141.

* Students selecting this sequence of courses must re-schedule hours in second semester of sophomore and junior year.

** If approved in advance, students who average C or above on Composition, English 111, 112, may substitute 6 credits of modern languages.

*** Students excused from military or air science and/or physical education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

**** Students electing PY 201, 202; MA 201, 202 sequence do not take this course.

Stem Requirements

(Fiber and Yarn Technology, Fabric Technology, General Textiles, and Knitting Technology Stems)

Stem 1 and 2 require the MA 201, 202 sequence.

<i>Stem 1. Fiber and Yarn Technology</i>	<i>Credits</i>	<i>Stem 2. Fabric Technology</i>	<i>Credits</i>
TX 304, Fiber & Yarn Tech. _____	4	TX 366, Fabric Technology _____	4
TX 436, Staple Fiber Process. _____	3	TX 575, Fabric Analytics and Characteristics _____	3
TX 430, Cont. Filament Yarns _____	3	TX 478, Design and Weaving _____	3
and either		and either	
TX 366, Fabric Technology _____	4	TX 304, Fiber and Yarn Tech. _____	4
and		and	
TX 483, Textile Cost Methods _____	2	TX 483, Textile Cost Methods _____	2
or		or	
Selection from Schedule B _____	6, 7, or 8*	Selection from Schedule B _____	6, 7, or 8*
	<hr/> 16 (to 18)		<hr/> 16 (to 18)

Stems 3 and 4 do not require MA 201, 202 sequence.

<i>Stem 3. General Textiles</i>	<i>Credits</i>	<i>Stem 4. **Knitting Technology</i>	<i>Credits</i>
TX 304, Fiber & Yarn Tech. _____	4	TX 483, Textile Cost Methods _____	2
TX 366, Fabric Technology _____	4	TX 430, Continuous Filament Yarns _____	3
TX 483, Textile Cost Methods _____	2	TX 441, Flat Knitting _____	3
Electives from Schedule C _____	6	TX 444, Garment Manufacture _____	3
	<hr/> 16	TX 447, 448, Advanced Knitting Lab _____	4
		Transfer to Free Electives _____	1
			<hr/> 16

Schedule A

Schedule A is comprised of two or three-course sequences totaling in each case a minimum of eight semester hours. The sequence elected by the student must meet with the approval of his adviser. Illustrative of the sequences would be studies in the areas of industrial engineering, industrial psychology, economics, or other approved fields of study. Any differences in hours between the minimum of eight which are required and the 10 allocated may be transferred to free electives.

Schedule B

Schedule B is comprised of two-course sequences totaling in each case a minimum of six credit hours. The sequence elected by the student must meet with the approval of his adviser. Illustrative of the sequences would be studies in the areas of mechanics and strength of materials, advanced statistics, advanced physics, industrial engineering, textile quality control, and other approved courses of the 300 level or above in the physical or applied science field.

Schedule C

Schedule C is comprised of two-course sequences in the field of textiles totaling in each case a minimum of six credit hours. Illustrative of the sequences available are the following:

* Any hours above the six allocated may be taken from free electives.
 ** Either Mathematics—Physics sequence is acceptable.

	<i>Credits</i>
TX 436, Staple Fiber Processing _____	3
and	
TX 430, Continuous Filament Yarns _____	3
TX 575, Fabric Analytics and	
Characteristics _____	3
and	
TX 478, Design and Weaving _____	3
TX 521, Textile Testing II _____	3
and	
TX 522, Textile Quality Control _____	3

Schedule D

Schedule D is comprised of a three-course sequence from one of the following fields totaling in each case a minimum of nine credit hours: English, foreign languages, history, political science, sociology, psychology, natural science, and physical science.

Textile Technology Curriculum (Management Option)

Freshman Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
CH 101, Chemistry _____	4	CH 103, Chemistry _____	4
*MA 101, Mathematics _____	5	*MA 102, Mathematics _____	4
ENG 111, English _____	3	ME 101, Engineering Graphics _____	2
HI 252, U. S. History _____	3	ENG 112, English _____	3
**MS 101, Military Science I		TX 221, Fundamentals of Textiles _____	3
or		**MS 102, Military Science I	
**AS 121, Air Science I _____	1	or	
**PE 101, Physical Education _____	1	**AS 122, Air Science I _____	1
	<hr/> 17	**PE 102, Physical Education _____	1
			<hr/> 18

Sophomore Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
PY 211, Physics _____	4	PY 212, Physics _____	4
MA 201, Mathematics _____	4	MA 202, Mathematics _____	4
or		or	
***MA 211, Mathematics _____	3	***MA 212, Mathematics _____	3
PS 201, American Government _____	3	TX 281, Fiber Quality _____	3
TX 261, Fabric Structure _____	3	EC 301, Economics _____	3
EC 201, Economics _____	3	**MS 202, Military Science II	
**MS 201, Military Science II		or	
or		**AS 222, Air Science II _____	1
**AS 221, Air Science II _____	1	**PE 202, Physical Education _____	1
**PE 201, Physical Education _____	1		
	<hr/> 18 or 19		<hr/> 15 or 16

* Students below a selected cut-off point in placement tests in mathematics will take Mathematics, MA 111, 112 and one more hour of free electives.

** Students excused from military or air science and/or physical education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

*** Students selecting this option transfer 2 hours to free electives.

Junior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
ST 361, Statistics	3	*English	3
TX 303, Fiber and Yarn Technology ..	4	TX 365, Fabric Technology	4
TC 201, Textile Chemistry I	2	TX 327, Textile Testing	4
EC 302, Economics	3	Free Electives	3
Stem Hours	6	Stem Hours	3
	<hr/> 18		<hr/> 17

Senior Year

<i>Fall Semester</i>	<i>Credits</i>	<i>Spring Semester</i>	<i>Credits</i>
*English	3	TX 485, Mill Design and Organization	3
TC 307, Textile Chemistry II	4	EC 490, Senior Seminar in Economics ..	3
TX 342, Knitting Principles	2	Free Electives	6
Free Electives	3	Stem Hours	6
Stem Hours	6		
	<hr/> 18		<hr/> 18

Credits required—freshman year, 33; sophomore year, 37; junior year, 35; senior year, 36; total 141.

Additional Stem Requirements

<i>Stem 5. Micro-Economics</i>	<i>Credits</i>	<i>Stem 6. Macro-Economics</i>	<i>Credits</i>
EC 312, Accounting for Engineers	3	EC 312, Accounting for Engineers	3
EC 410, Industry Studies		EC 440, Economics of Growth	3
or		EC 444, Economic Systems	3
EC 413, Competition, Monopoly and Public Policy	3	EC 448, International Economics	3
Two courses from the following in economics: EC 310, EC 410, or EC 413, EC 440, EC 446, and EC 448	6	Selections from Schedule D	9
Selection from Schedule D	9		
	<hr/> 21		<hr/> 21

<i>Stem 7. Applied Economics</i>	<i>Credits</i>
EC 312, Accounting for Engineers	3
EC 410, Industry Studies	
or	
EC 450, Economic Decision Processes ..	3
EC 552, Econometrics	3
**MA 405, Introduction to Determi- nants & Matrices	3
Selections from Schedule D	9
	<hr/> 21

* If approved in advance, students who average C or above on Composition, English 111, 112, may substitute 6 credits of modern language.

** MA 202 is a prerequisite for MA 405. Therefore, students taking Stem #7 must take MA 201, 202 rather than MA 211, 212.

Textile Research

The School of Textiles is actively engaged in a program of basic and applied research both State-supported and sponsored, carried on primarily in the educational departments concerned. In textile chemistry, the overall direction is under Professor Henry A. Rutherford, head of the department. Dr. David Cates is the assistant director of chemical research, handling primarily basic areas, and W. R. Martin, Jr., heads the sponsored and applied areas. In the Department of Textile Technology, which encompasses all the areas outside those involved in chemistry and knitting, the overall direction is under Professor E. B. Grover, head of the department, with Professor John F. Bogdan in direct charge of all sponsored programs. Research in knitting technology is under the direction of Professor W. E. Shinn, head of the Department of Knitting Technology.

Textile Machine Development

C. M. ASBILL, JR., *Head*

The Department of Textile Machine Development was established to assist the textile industry and the students of the School of Textiles in matters relating to textile processing machinery and testing apparatus.

Specifically the objective of the department is to make available to the textile industry and to the faculty and students of the School of Textiles the facilities of a qualified textile engineering department with means for the design, construction and testing of new or improved equipment.

The department attempts to keep informed as to modern machinery and practices by maintaining close contact with textile mills and machine manufacturers as well as by a digest of technical articles and patents, and by participation in technical and scientific conferences.

The physical facilities of the department include a completely equipped machine shop and electronics section, together with thoroughly trained operating personnel.

Textile Placement Bureau

Professor GEORGE H. DUNLAP, *Director*

The Placement Bureau is a clearing house for students in the graduating class and for textile alumni. It is a coordinating agency for the employer and the graduates of the School of Textiles. The Placement Bureau tries to keep an accurate file of all textile alumni and the progress they have made. Therefore, all alumni are requested to notify the director when they receive a promotion or transfer from one organization to another.

Textile Library

ADRIANA P. ORR, *Librarian*

As a result of a substantial gift by the Burlington Mills Corporation, the Textile Library was relocated in the Textile Building in 1951. The new, enlarged quarters were designed to incorporate the latest functional improvements.

The library was organized in 1944 incorporating the entire textile collection from the D. H. Hill Library. There are now about 9,000 volumes of which 3,000 are bound periodicals. The library subscribes to 150 current periodicals, both American and foreign, which are thoroughly indexed in Industrial Arts Index, Chemical Abstracts, Natural and Synthetic Fibers, Textile Technology Digest, and Textile Institute Journal Abstracts.

In addition to books and periodicals, the librarian and student assistants maintain files of pamphlets, reprints, trade catalogs, and patents. Special card indexes have been prepared for these collections.

The holdings of the Textile Library are available on loan not only to students and faculty of the College but also to research workers and industry employees throughout North Carolina.



THE GRADUATE SCHOOL

DONALD B. ANDERSON, Vice President, Graduate Studies and Research, Chapel Hill
WALTER J. PETERSON, Dean, Raleigh

The Graduate School of the Consolidated University of North Carolina is composed of three divisions, one at each of the three institutions of the University. Each unit is administered by a graduate dean and an administrative board representing the various degree-granting areas in each institution. The vice president for Graduate Studies and Research is the administrative officer of the Consolidated University who has responsibility for the development of policy in all graduate programs and for the coordination of the activities of the graduate schools at each of the three units of the University system.

Master's Degrees

At State College graduate instruction is offered in the following fields: agriculture, education, engineering, forestry, physical sciences and applied mathematics, and textiles. The Master of Science degree is offered in each of these areas. The Professional Master's degree, also offered in some of these fields, is intended for students who are interested in the more advanced applications of fundamental principles to specialized fields rather than in the acquisition of the broader background in advanced scientific studies which would fit them for careers in research.

Doctor of Philosophy Degree

The Doctor of Philosophy degree is offered in the following fields: agricultural economics, agricultural engineering, animal science, applied mathematics, applied physics, bacteriology, botany (in the fields of physiology and ecology), ceramic engineering, chemical engineering, civil engineering, crop science, electrical engineering, entomology, experimental statistics, food science, forestry, genetics, mechanical engineering, nuclear engineering, plant pathology, rural sociology, soil science, and zoology (in the fields of ecology and wildlife biology).

Students interested in graduate study should consult the Graduate School Catalog which is sent to them upon request. Inquiries should be addressed to: *Dean of the Graduate School, North Carolina State College, Raleigh, North Carolina.*



COLLEGE EXTENSION DIVISION

EDWARD W. RUGGLES, Director

The College Extension Division's services, which cover a multitude of fields, are designed for persons who cannot attend classes on the campus and for designated groups and communities.

There must be a sufficient number of persons registered for a course for it to be held. In setting up courses, such matters as distance from the College, nature of the subject, and availability of instructors must be taken into consideration.

Correspondence Courses

Correspondence courses for college credit are offered in agriculture, architecture, economics, education, engineering, English, entomology, geology, history, political science, mathematics, modern languages, psychology, rural sociology, sociology, and statistics. In these fields there are more than 75 courses offered.

The Correspondence Bureau also has a program of four high school courses—English review, review of elementary algebra, solid geometry, and plane geometry. These non-credit courses give high school graduates an opportunity to fulfill the college entrance requirements and also assist persons who make low scores on their entrance examinations.

Other correspondence courses may be taken for professional credit rather than college credit.

Evening College

The Evening College is another Extension Division service. Each fall and spring semester, a series of college credit courses is presented on the State College campus for residents of the Raleigh area. In addition, there are offerings of hobby and vocational classes. Similar courses are offered in communities where the demand is sufficiently great and other courses are conducted at military bases in North Carolina.

The Evening College offers resident credit for extension night class work and its program allows persons to work towards a degree.

The Extension Division conducts a series of night classes in sub-freshman mathematics on the State College campus.

Short Courses and Conferences

A wide variety of short courses and conferences are planned each year by the Extension Division in cooperation with several State College schools.

Among these specialized courses are those designed for electrical meter engineers, veterinarians, sawmill operators, pest control operators, clay plant operators, gas plant operators, dry kiln operators, nurserymen, and artificial breeders.

Included among the other short courses offered annually are the cattle-men's conference, dairymen's conference, swine conference, pesticide school, and the State garden schools plus courses in statistical quality control, furniture finishing, grain marketing, farm and small business income tax, sport fishing, job evaluation, quality control, cotton classing, warm air heating and air conditioning and a short course for commercial flower growers.

Other programs available are dairy herd testing, nutrition school, oil burner schools, textile conferences, quality concrete conference, North Carolina press mechanical conference, short courses in modern farming, industry research conference, safety school, nuclear engineering courses, and scores of other programs which benefit trade and professional groups.

Other courses offered are or pertain to improving managerial capacity, egg industry, pest control operators, soft frozen dairy products, industrial engineering seminar, surveying, state highway conference, public works conference, roofing and sheet metal forum, southeastern park and recreation training institute, industrial ventilation conference, electrical supervisors, plumbing inspectors, maintenance of commercial vehicles, stop watch time study, fire alarm superintendents and professional driver training.

The Gaston Technical Institute is conducted by the Extension Division as a division of the College's School of Engineering. Gaston Tech, located in Gastonia, offers four two-year technical training courses in electrical, civil, electronics, and mechanical-production technology. A separate catalog on the Institute and its curricula is available upon request.

The North Carolina Truck Driver Training School conducts 12 four-week training courses for professional truck drivers each year. These schools are sponsored by the N. C. Motor Carriers Association. A bulletin giving complete details and application forms is available.

For additional information, persons interested in extension classes, correspondence courses, or any of the other programs sponsored by the Extension Division should write: *Mr. Edward W. Ruggles, Division of College Extension, North Carolina State College, Raleigh, North Carolina.*





DESCRIPTION OF COURSES

In a typical course description, the semester hours of credit, the number of actual lecture and laboratory hours of meeting per week, and the term or terms in which the course is offered are shown in this manner: 2 (1-2) f s.

The two indicates the number of semester hours credit given for satisfactory completion of the course. The (1-2) indicates that the course meets for one hour (number on the left) of lecture and for two hours (number on the right) of laboratory work each week. The f s designation (fall semester and spring semester respectively) indicates that the course may be taken either during the fall or spring semester.

Agricultural Economics

Courses for Undergraduates

AGC 112 Economics of Agriculture 3 (3-0) f s
Prerequisite: EC 201

An introduction to the economic principles underlying agricultural production and marketing; organization for production in agriculture; consumers and their influence upon the demand for agricultural products; relationships between agriculture and other segments of the economy; dynamic factors in the economy which affect agriculture. Staff

AGC 303 Organization and Business Management of Farms 3 (2-2) f s
Prerequisite: AGC 212

An application of basic economic principles and techniques to the problems facing a farm business; use of budgeting, programming, systems analysis and other modern techniques to determine what, how, and how much to produce when faced with numerous alternatives; analysis of problems associated with firm size and the acquisition of adequate resources; use and analysis of farm records as an aid to better management. Two all-day Saturday field trips are required of all students. Messrs. Ihnen, Hoover

AGC 311 Organization and Business Management of Marketing Firms 3 (2-2) f s
Prerequisite: AGC 212

A study of the agricultural marketing system and the current economic forces affecting its structure and efficiency; decision-making by agricultural business firms, with some discussion of integration and inter-firm relationships. Effects of monopoly in marketing relative to government policies of control. Classroom discussion is supplemented by visits to marketing firms and by practical problems illustrating firm decisions. A laboratory period will be included in alternate weeks beginning with the second full week of classes. Students are expected to individually examine the marketing problems associated with the commodity of their choice. Messrs. Peeler, Simmons

AGC 322 Organization and Management of Cooperatives 2 (2-0) s
Prerequisite: AGC 212

A study of the principles of cooperation applied to farmers' purchasing, marketing, and service cooperatives; the role of cooperatives in our society, and problems associated with organization, operation, and management.

(Offered in Spring 1963 and alternate years)

Mr. King

Courses for Advanced Undergraduates

AGC 413 Farm Appraisal and Finance

3 (2-3) s

Prerequisite: AGC 303

Examination of the source of productivity and value of farm inputs; a critical analysis of, and practice in the use of, farm appraisal procedures currently used for land and buildings; review of the sources of, and repayment practices used in, short and intermediate credit in agriculture; consideration of the forces operating in the whole economy with an examination of the implications of these changes for both the lender and borrower in agriculture.

Mr. Hoover

AGC 431 Agricultural Price Analysis

3 (3-0) f

Prerequisite: AGC 212

Principles of price formation; the role of prices in the determination of economic activity; the interaction of cash and futures prices for agricultural commodities; methods of price analysis, construction of index numbers, analysis of time series data including the estimation of trend and seasonal variations in prices.

Staff

Courses for Graduates and Advanced Undergraduates

AGC 512 Economic Analysis of Agricultural Factor Markets

3 (3-0) s

Prerequisite: AGC 212

This course is oriented to the relative significance of land, labor and capital as factors of production in a modern agricultural economy, including major changes in the respective roles of these factors of production in recent years. An examination is made of the changes in characteristics of the supply and demand for these factors. The structure and efficiency of markets for these factors, including relevance of the institutional and attitudinal setting in each type of market, and nature of the demand-supply equilibration will be investigated. Public policies as they affect efficiency of the factor markets and other goals relating to the use of the basic factors of production in agriculture also will be considered.

Mr. Tolley

AGC 521 Procurement, Processing and Distribution of Agricultural Products

3 (3-0) s

Prerequisite: AGC 311 or equivalent

A study of marketing firms as producers of marketing services and their role in the pricing process; the influence of government policies on their behavior of marketing firms; methods for increasing the efficiency of marketing agricultural products.

Mr. King

AGC 523 Planning Farm and Area Adjustments

3 (2-2) f

Prerequisite: AGC 303 or equivalent

The application of economic principles in the solution of production problems on typical farms in the state; methods and techniques of economic analysis of the farm business; application of research findings to production decisions; development of area agricultural programs.

Mr. Coutu

AGC 533 Agricultural Policy

3 (3-0) s

Prerequisite: AGC 212

A review of the agricultural policy and action programs of the Federal Government in their economic and political setting; analysis of objectives, principal means, and observable results under short-term and long-term viewpoints, and under the criteria of resource use and income distribution within agriculture, and between agriculture and the rest of the economy; appraisal of alternative policy proposals; the effects of commodity support programs on domestic and foreign consumption, and some of the international aspects of United States agricultural policy; the attempts at world market regulations, and the role of international organizations, agreements, and programs.

Staff

AGC 551 Agricultural Production Economics

3 (3-0) f

Prerequisite: AGC 212

An economic analysis of agricultural production, including: production functions, cost functions, programming and decision-making principles; and the applications of these principles to farm and regional resource allocation, and to the distribution of income to and within agriculture.

Mr. Toussaint

AGC 552 Consumption, Distribution, and Prices in Agriculture 3 (3-0) s
 Prerequisite: AGC 212 or equivalent
 Basis for family decisions concerning consumption of goods and services and supply of productive factors; forces determining prices and incomes; interrelationships between economic decisions of the household and the firm.
 Mr. Henry

AGC 561 Seminar in Contemporary Economic Problems in Agriculture Maximum 6
 Prerequisite: Senior or graduate standing and consent of the instructor
 Analysis of economic problems of current interest in agriculture. Credit for this course will involve a scientific appraisal of a selected problem and alternative solutions.
 Staff

Courses for Graduate Students Only

AGC 602 Monetary and Fiscal Policies in Relation to Agriculture 3 (3-0) s
 Prerequisite or corequisite: EC 501 or equivalent
 The essentials of monetary theory necessary in interpreting and evaluating monetary and fiscal operations and policies as to their effect upon income, employment, and price level; the monetary and fiscal structure, and the mechanics of monetary and fiscal operations in the United States; and the relation of monetary and fiscal policies to agricultural income and prices.
 Mr. Tolley

AGC 612 International Trade in Relation to Agriculture 3 (3-0) s
 Prerequisites or corequisites: AGC 602 and 641
 The principles of international and interregional trade; structures of trade relationships between countries engaged in the import or export of agricultural products; attempts at stabilizing trade and financial transactions.
 Staff

AGC 621 Research in Agricultural Economics Credits by arrangement
 Prerequisite: Graduate standing in Agricultural Economics and consent of Graduate Advisory Committee
 A consideration of research methods and procedures employed in the field of agricultural economics, including qualitative and quantitative analysis, inductive and deductive methods of research procedure, selection of projects, planning and execution of the research project.
 Staff

AGC 631 Economic and Social Foundations of Agricultural Policy 3 (3-0) f
 Prerequisite: AGC 501 or equivalent
 The study of logical and empirical problems of inquiry into public policies and programs that affect agriculture; analysis of policy-making processes, interdependencies among economic, political and social objectives and action; the study of forces which shape economic institutions and goals and of the logic, beliefs and values on which policies and programs that affect agriculture are founded.
 Staff

AGC 632 Welfare Effects of Agricultural Policies and Programs 3 (3-0) s
 Prerequisite: AGC 642
 Description of the conditions defining optimal resource allocation; application of the conditions for maximum welfare in appraisal of economic policies and programs affecting resource allocations, income distribution, and economic development of agriculture.
 Mr. Bishop

AGC 641 Economics of Production, Supply and Market Interdependency 3 (3-0) s
 Prerequisite or corequisite: EC 501 or equivalent
 An advanced study in the logic of, and empirical inquiry into, producer behavior and choice among combinations of factors and kinds and quantities of output; aggregative consequences of individuals' and firms' decisions in terms of product supply and factor demand; factor markets and income distribution; general interdependency among economic variables.
 Mr. Seagraves

AGC 642 Economics of Consumption, Demand and Market Interdependency 3 (3-0) f
 Prerequisites: AGC 641 and ST 513 or equivalent
 An advanced study in the theory of, and research related to, household behavior; aggregative consequences of household decisions concerning factor supply and product demand; pricing and income distribution; economic equilibrium.
 Mr. King

AGC 651 (ST 651) Econometric Methods I**3 (3-0) f**

Prerequisites: ST 421, ST 502, and AGC 642

The role and uses of statistical inference in agricultural economic research; measurement problems and their solutions arising from the statistical model and the nature of the data; limitations and interpretation of results of economic measurement from statistical techniques. Topics include the problems of specification, aggregation, identification, multicollinearity and autocorrelation. Attention also is given to expectations models and simultaneous stochastic equations.

Mr. Wallace

AGC 652 (ST 652) Econometric Methods II**3 (3-0) s**

Prerequisites: ST 522 and AGC 551

Techniques for problem analysis in agricultural economics; attention to analysis of time series data; non-parametric inference; experimental design in economic research; estimation of parameters in production functions and in simultaneous models; selected special topics.

Mr. Anderson

AGC 671 Analysis of Economic Development in Agriculture**3 (3-0) f**

Prerequisite: AGC 641

A theoretical and empirical study of the processes of economic growth; the problems of underdeveloped countries; the role of agriculture in a developing economy; an examination of policies and programs needed for effective economic development.

Mr. Maddox

Agricultural Education

(See Education)

Agricultural Engineering

Courses for Undergraduates

AGE 151, 152 Farm Mechanics**2 (1-3) f s**

Prerequisite: Enrollment in ASE or ATE curriculum

These courses are designed to acquaint Agricultural Engineering students with materials and tool processes related to the various fields of endeavor in Agricultural Engineering; also to develop the student's ability to plan in terms of the manual and managerial skills related to the utilization of such materials and processes.

Mr. Blum

AGE 201 Agricultural Construction and Maintenance I**2 (1-3) f s**

This course is designed to acquaint the student with planning procedures, construction materials and woodworking tools, building layout and design, and preventative maintenance. Limited laboratory practice in the manual and managerial skills involved in the utilization of such information is included.

Messrs. Howell, Blum

AGE 202 Agricultural Construction and Maintenance II**2 (1-3) f s**

This course is designed to acquaint the student with the manual and managerial skills involved in the construction, repair, and maintenance of farm machinery and utilities. The use of materials, tools, and facilities needed will be stressed. Considerable emphasis will be placed on arc and oxyacetylene welding.

Messrs. Howell, Blum

AGE 211 Farm Power and Machinery I**3 (2-2) f s**

Corequisite: PY 201 or PY 211 for ASE or ATE students

A study of modern farm machinery, power units and equipment with emphasis on selection, operation, maintenance, care and adjustments from the operator's viewpoint.

Staff

Courses for Advanced Undergraduates

AGE 303 Energy Conversion for Agricultural Production

2 (2-0) s

Prerequisites: BO 103 or ZO 103, MA 112 or MA 201, PY 211 or PY 201

Energy transformations and exchanges of plants and animals are studied on the basis of physical theories and principles. Specific examples in thermal radiation, convection, conduction, phase changes, muscle work, photosynthesis, respiration, and concentration of solutions will be discussed.

Mr. Suggs

AGE 321 Irrigation, Drainage and Terracing

3 (2-3) s

Prerequisite: Junior standing

Needs for irrigation in the Southeast and methods of accomplishment; methods of draining excess water from agricultural areas; the use of basic surveying equipment; and the need for and methods of accomplishing erosion control by mechanical measures to supplement vegetable programs.

Staff

AGE 331 (FS 331) Food Engineering

3 (2-2) s

Prerequisite: PY 211

Fundamentals of power application in the processing and preservation of perishable food products.

Mr. Jones

AGE 332 Farm Buildings and Crop Processing

3 (2-3) s

Prerequisite: Junior standing

Construction materials, structural features and design loads. Functional planning of farm buildings for housing domestic animals and for storing and handling farm crops. Curing and drying of farm crops.

Messrs. Blum, Weaver

AGE 341 Farm Electrification and Utilities

3 (2-2) f

Prerequisite: Junior standing

Problems and general study in the proper selection and use of applicable farm electric equipment and allied utilities.

Mr. Weaver

AGE 371 Soil and Water Conservation Engineering

4 (3-3) s

Prerequisites: CE 201, SSC 200

General aspects of agricultural hydrology, including precipitation, classification of climate, rainfall disposition, methods of estimating runoff, fundamental soil and water relationships, and hydraulics of flow in open channels and closed conduits, will be given. Included also are factors affecting erosion, methods of controlling erosion, land use classification, drainage, land clearing, irrigation methods, design requirements for portable irrigation systems, and economic aspects of irrigation in the Southeast.

Mr. Wisen

AGE 401 Problems in Farm Mechanics

3 (2-2) f

Prerequisites: AGE 201, 202, Enrollment in Agricultural Education

A study of the mechanical activities engaged in by the vocational agriculture teacher; with emphasis on the role of the teacher in the area of agricultural engineering technology. Included is a study of facilities, equipment, and shop management.

Mr. Howell

AGE 411 Farm Power and Machinery IIB

3(2-3) f s

Prerequisite: AGE 211

This course is designed to provide students in Agricultural Engineering Technology with a knowledge of the operations of manufacturing and distribution organizations of farm machinery and their places in these organizations. Included is a practical course in farm tractors and engines with emphasis on familiarizing the student with component parts—their application, operation, and maintenance, as well as with the selection of these units from the standpoint of power, performance, and ratings.

Messrs. Fore, Greene

AGE 451 Conditioning Principles for Plant and Animal Systems

2 (2-0) f

Prerequisite: ME 301

Principles of heat transfer and diffusion are presented using the mathematical equations to point out analogous systems. The use of electric analogs to describe thermal and diffusion fields is demonstrated. Psychrometric and heat transfer principles are used to indicate methods of conditioning the environment in agricultural structures. Thin layers drying theory and dimensional analysis are used to describe bulk drying systems of agricultural crops.

Mr. Jordan

AGE 452 Senior Seminar

Students will prepare talks in their particular field of interest, presenting them to the group. Also, two or three field trips to selected points of educational opportunities will be made during the semester. Maximum of two credits allowed.

1 (1-0) s
Mr. Hassler

AGE 462 Farm Power and Machinery IIA

Prerequisites: AGE 211, EM 301

A study of engineering analysis as it applies to problems in the power and machinery field of Agricultural Engineering. The course is intended to strengthen the students ability to approach agricultural engineering problems in a systematic manner.

4 (3-3) f

Mr. Bowen

AGE 481 Agricultural Structures as Production Units

Prerequisites: AGE 451, EM 301

Application of conditioning principles to provide the required environment for optimum agricultural production is stressed. Environmental requirements of animals and of harvested crops are discussed. Analysis for labor reduction and the replacement of human decisions with electric controls are indicated. Environmental requirements, proper arrangement, equipment, equipment selection and control, and estimation of external loads are presented to indicate the design procedures for a sound, functional building.

4 (3-3) s

Mr. Jordan

AGE 491 Rural Electrification

Prerequisite: EE 320

Wiring and circuitry for both single and three phase applications of electricity to farm and rural community processes and operations. A very brief study of the local and regional organization as developed by the electric industries for the dependable generation, transmission, and distribution of power. Electric motor characteristics and selection are studied in the laboratory along with those of water systems, feed grinders and mixers; lighting systems, cooling, ventilating, heating, and the application of switches and controls.

4 (3-3) f

Mr. Weaver

Courses for Graduates and Advanced Undergraduates

AGE 551 Special Problems

Prerequisite: Senior or graduate standing in Agricultural Engineering

Each student will select a subject on which he will do research and write a technical report on his results. He may choose a subject pertaining to his particular interest in any area of study in Agricultural Engineering.

Credits by arrangement

Mr. Hassler, Staff

AGE 552 Instrumentation for Agricultural Research and Processing

Prerequisites: EE 320, MA 301

Elaboration of the theory and principles of various primary sensing elements. Relates the output signal of electrical transducers to wheatstone bridge and potentiometer measuring circuits for calibration of the signal with the variable under study. Introduces the principles of circuits and mechanisms used for indicating, recording, and/or controlling process variables. Representative equipment will be employed whenever feasible.

1 (0-2) f

Mr. Splinter

Courses for Graduates Only

AGE 651 Research in Agricultural Engineering

Prerequisite: Graduate standing in Agricultural Engineering

A maximum of six credits is allowed toward a master's degree; no limitation on credits for doctorate program.

Performance of a particular investigation of concern to Agricultural Engineering. The study will begin with the selection of a problem and culminate with the presentation of a thesis.

Graduate Staff

Credits by arrangement

AGE 652 Seminar

Prerequisite: Graduate standing

A maximum of two credits is allowed.

Elaboration of the subject areas, techniques and methods peculiar to professional interest through presentations of personal and published works; opportunity for students to present and defend, critically, ideas, concepts and inferences. Discussions to point up analytical solutions and analogies between problems in Agricultural Engineering and other technologies, and to present the relationship of Agricultural Engineering to the socioeconomic enterprise.

1 (1-0) f s

Mr. Hassler

AGE 654 Agricultural Process Engineering

3 (3-0) f s

Prerequisite: MA 511

Generalized classical thermodynamics is extended by Onsager's relations to provide a theoretical basis for analyzing the energetics of systems that include life processes.

Mr. Johnson

AGE 661 Analysis of Function and Design of Farm Machinery

3 (2-3) f or s

Prerequisite: PY 401

Methods and tools used in determining the functional requirements of machine components; writing of machine specifications in terms of fundamental parameters; introduction of the principles of discriminate and indiscriminate mechanical selection of agricultural products with emphasis on the theory of servo-systems.

Mr. Bowen

AGE 671 Theory of Drainage Irrigation and Erosion Control

4 (3-3) f or s

Prerequisite: MA 512

Emphasis is placed on the physical and mathematical aspects of problems in conservation engineering and an attempt is made to rationalize procedures which have often come about through experience rather than through analytical considerations. Examples are presented of cases where such an analytical approach has already improved, or shows promise of improving, design criteria and procedures.

Mr. van Schilfgaarde

AGE 681 Analysis of Function and Design of Farm Buildings

4 (4-0) f or s

Prerequisite: AGE 481

A study of the functional requirements of farm structures with respect to man, animals and crops and development of the means for providing structures which fulfill the functional requirements. Application of the science and art of engineering in the solution of environmental problems. Advanced planning in the integration of structural and environmental design.

Mr. Jordan

Agriculture

AG 103 Introduction to Agriculture

1 (0-2) f

A study of Agriculture as a profession and as it relates to the entire economy of the United States.

AC 311 Agricultural Communications Methods and Media

3 (3-0) s

Prerequisites: ENG 111 and 112

Designed to give an insight into the communications process; written, oral and visual techniques of communications; a survey of the channels of communications available; and techniques for using these channels individually or combined into a publicity or public relations information program.

Mr. Carpenter

AG 401 Principles and Methods of Extension Education

3 (3-0) s

Prerequisite: Senior standing (Graduate credit in special cases with permission of committee)

A study of the background, development and operation of the Agricultural Extension Service. Consideration is given to major events leading to the establishment of Agricultural Extension, its objectives, organization and philosophy. Major emphasis is placed upon the principles underlying extension education together with methods of program building and teaching.

Mr. Sloan

Air Science

The Basic Course

AS 121 Air Science I

1 (0-1) f

During the fall semester, each student will be required to participate in the Leadership Laboratory program for one hour per week. Classroom requirements will be met by the satisfactory completion of at least three academic hours of an approved course in the field of mathematics, modern languages or humanities.

AS 122 Air Science I**1 (2-1) s**

An introductory examination of the factors of aerospace power, major ideological conflicts, requirements for military forces in being, responsibilities of citizenship, development and traditions of the military profession, role and attributes of the professional officer in American democracy, organization of the armed forces as factors in the preservation of national security, and the United States Air Force as a major factor in the security of the free world.

AS 221 Air Science II**1 (2-1) f**

An introductory survey of aerospace missiles and craft, and their propulsion and guidance systems; target intelligence and electronic warfare; nuclear, chemical and biological warhead agents; defensive, strategic and tactical operations; problems, mechanics and military implications of space operations; and a survey of contemporary military thought.

AS 222 Air Science II**1 (0-1) s**

Leadership laboratory will continue; however, the classroom requirements will be met by satisfactory completion of at least three academic hours of an approved course in the fields of physical or natural sciences or in the intermediate levels of mathematics, modern languages, humanities or social sciences.

The Advanced Course

The leadership laboratory program continues for one hour per week throughout the advanced course with students assuming command and control of progressively larger units and greater responsibilities.

AS 321 Air Science III**1 (2-1) f**

Prerequisites: Basic Air Science Courses

Instruction deals with staff organization and functions, and the skills required for effective staff work, including oral and written communications and problem solving; basic psychological and sociological principles of leadership and their application to leadership practice and problems. Classroom requirements will be partially met by the satisfactory completion of either SOC-301, SOC-501, or EC-426.

AS 322 Air Science III**2 (3-1) s**

Study continues in principles of leadership, and instruction includes communicating and instructing in the Air Force and an introduction to military justice.

AS 421 Air Science IV**2 (3-1) f**

Prerequisite: Air Science III

Instruction deals with weather and navigation, a flying instruction program, and an intensive study of global relations of special concern to the Air Force officer with emphasis on international relations and geography.

AS 422 Air Science IV**1 (2-1) s**

The study of the military aspects of world political geography continues; course includes a briefing for commissioned service and the leadership laboratory. Classroom requirements will be partially met by the satisfactory completion of one of these courses: PS-302, HI-415, SS-301, SS-302, SS-491, SS-492.

Summer Training Unit

An integral part of the Advanced Course is the Summer Training Unit, a four-week encampment at an active Air Force Base. During the summer encampment a cadet is trained in the use of weapons, in close-order drill; he will participate in physical training, competitive sports, orientation flying and will become familiar with aerospace vehicles and emergency equipment; he will observe at first hand various organizations on the base in the performance of their everyday operations. Normally a student enrolled in the advanced course will attend a Summer Training Unit between his junior and senior years; under unusual circumstances, attendance can be postponed until the summer following completion of degree requirements.

Animal Science

Courses for Undergraduates

ANS 201 Elements of Dairy Science

4 (3-3) f s

Fundamental principles of milk production; breeds, selection, feeding and management of dairy cattle; composition, quality and food value of milk products; principles of processing and manufacturing dairy products.

Mr. Everett

ANS 202 Fundamentals of Animal Husbandry

4 (3-3) f s

Principles of feeding, managing and marketing meat animals. Year to year and seasonal price trends and relationships. Relation of slaughter grades to carcass cut-out values.

Mr. Goode

ANS 302 Selecting Dairy and Meat Animals

2 (0-6) f

A study of dairy and meat animals including desired characteristics in breeding and market animals and relating to productive performance. Market classes and grades of beef cattle, sheep and swine and relation of live animal grade to carcass grade will be studied. Herd book study, pedigree evaluation and breed history and organization will be included.

Messrs. Murley and Gregory

ANS 303 (FS 303) Meat and Meat Products

3 (2-3) s

Prerequisite: CH 451

Study of live animal and carcass relationship, dressing percentages and cut-out values. Slaughtering, cutting, curing, freezing and handling of meat and meat products for commercial and home use.

Messrs. Blumer, Craig

ANS 308 Advanced Selecting Dairy and Meat Animals

1 (0-3) s

Prerequisite: ANS 302

Intensive practice on developing proficiency in selecting techniques for dairy and meat animals with emphasis on oral reasons. Visits will be made to leading farms to study different breeds.

Messrs. Murley, Gregory

ANS 309 (FS 309) Meat Selection

1 (0-6) f

Detailed consideration of factors involved in selection of carcasses and wholesale cuts of beef, pork and lamb. Practice in identification of wholesale and retail cuts.

Mr. Blumer

ANS 312 Principles of Livestock Nutrition

3 (3-0) s

Prerequisites: CH 431, ZO 301

Fundamentals of modern animal nutrition, including classification of nutrients, their general metabolism and roles in productive functions.

Mr. Ramsey

ANS 404 Dairy Farm Problems

3 (2-3) s

Prerequisite: ANS 201

Advanced study of practical dairy farm management including farm records, farm buildings, sanitation, roughage utilization and herd culling.

Mr. Murley

ANS 406 Animal Science Seminar

1 (1-0) s

Review and discussion of special topics and the current literature pertaining to all phases of animal science.

Mr. Porterfield

ANS 407 Advanced Livestock Production

4 (3-3) s

Prerequisites: GN 411 and ANS 312

A study of the economic, nutritional, genetic, physiological and managerial factors affecting the operation of commercial and purebred livestock enterprises.

Mr. Barrick

ANS 408 Reproduction and Lactation

3 (2-3) s

Prerequisite: ZO 301

Anatomy of the reproductive organs and mammary glands with detailed coverage of the physiological processes involved and of factors controlling and influencing them. A special research problem selected by the student is required.

Messrs. Mochrie, Myers, Ulberg

Courses for Graduates and Advanced Undergraduates

ANS 503 (GN 503) Genetic Improvement of Livestock 3 (2-3) f
Prerequisite: GN 411

Traits of economic importance in livestock production, and their mode of inheritance. Phenotypic and genetic relationships between traits. The place of selection, inbreeding and cross-breeding in a program of animal improvement.
Mr. Robison

ANS 505 Diseases of Farm Animals 3 (3-0) f
Prerequisites: CH 101, CH 203; BO 421 desired

The pathology of bacterial, virus, parasitic, nutritional and thermal diseases, and mechanical disease processes.
Mr. Batte

ANS 507 Topical Problems in Animal Science Maximum 6 f s
Special problems may be selected or assigned in various phases of Animal Science. A maximum of six credits is allowed.
Staff

ANS 513 Needs and Utilization of Nutrients by Livestock 3 (3-0) s
Prerequisite: ANS 312 or equivalent

Measurement of nutrient needs of livestock and the nutrient values of feeds. Nutritive requirements for productive functions.
Mr. Wise

Courses for Graduates Only

ANS 600 Research in Animal Science Credits by arrangement f s
A maximum of six hours is allowed toward the master's degree; no limitation on credits in doctorate programs.

ANS 601 Seminar in Animal Nutrition 1 (1-0) f s
Prerequisite: Permission of seminar leaders
Orientation in philosophy of research; preparation for research in agriculture, and general research methodology.
Nutrition Staff

ANS 602 (GN 602) Population Genetics in Animal Improvement 3 (Arranged) f
Prerequisites: ST 512 and GN 512
A study of the forces influencing gene frequencies, inbreeding and its effects, and alternative breeding plans.
Mr. Legates

ANS 603 Animal Nutrition: Mineral Metabolism 3 (3-0) f
Prerequisite: CH 551
Principles of mineral metabolism with emphasis on metabolic functions, reaction on mechanisms and interrelationships.
Mr. Matrone

ANS 604 (ZO 604) Experimental Animal Physiology 4 (2-4) f
Prerequisite: ZO 513 or equivalent
A study of the theories and techniques involved in the use of animals in physiological investigation.
Messrs. Ulberg, Wise

ANS 614 (BO 614) Bacterial Metabolism 3 (2-3) s
Prerequisites: BO 514 or equivalent and CH 551
The energy metabolism of bacteria; synthesis of carbohydrates, lipids, proteins, purines, pyrimidines, and nucleic acids; bacterial photosynthesis; enzyme formation and metabolic control mechanisms; active transport systems.
Mr. McNeill

ANS 621 (CH 621) Enzymes and Intermediary Metabolism 4 (3-4) f
Prerequisites: CH 511 and permission of instructor
A study of the properties of enzymes and enzyme action; intermediary metabolism of carbohydrates, lipids, fatty acids, vitamins, purines and phosphorins; metabolic energy relationships.
Mr. Tove

ANS 622 (CH 622, ST 622) Principles of Biological Assays

3 (2-2) s

Prerequisites: CH 551 and ST 512

Techniques and designs of biological assays for vitamins. The interrelationship of logical principles, design and analysis is emphasized.
Messrs. Smart, Tove

Anthropology

(Also see Sociology)

Courses for Undergraduates

ANT 251 Physical Anthropology

3 (3-0) f

The study of the development of man as a species; analysis of the formation and spread of races; introduction to archaeology as a study of the material remains of ancient man and his activities.

ANT 252 Cultural Anthropology

3 (3-0) s

The analysis of various living societies and their cultures in terms of social adjustment to recurrent needs.

ANT 305 Peoples of the World

3 (3-0) f s

This course seeks to develop insights of wide applicability concerning human relationships and the adjustment of man to his geographical, social, and cultural environments. The course is designed to demonstrate interrelationships among diverse factors affecting human behavior in all societies.

ANT 410 Theories of Culture

3 (3-0) f

Prerequisites: SOC 202, SOC 301 or equivalent

The study of major anthropological theories of culture with intensive analysis of their application.

Architecture

Courses for Undergraduates

ARC 201, 202 Architectural Design I, II

4 (3-6) f s

Prerequisite: DN 102

Required of second year students in Architecture and Landscape Architecture

Introductory exercises in architectural design. The design of small buildings of specific function and simple construction which can be related to the student's experience; emphasis on the influence of environment, climate, etc.

Messrs. Boaz, Buisson, Clarke, Waugh, Wurman

ARC 300 Historic Architecture Research

2 credits s

Prerequisite: ARC 202

Required of all students in Architecture and Landscape Architecture

Research and the recording of sites, monuments, buildings, or artifacts of historical interest.

Mr. Shogren

ARC 301, 302 Architectural Design III, IV

6 (3-12) f s

Prerequisites: ARC 202, EM 200, PY 211

Required of third year students in Architecture

Continuing exercises in architectural design, based on larger buildings with more complex interior and exterior relationships. Emphasis on the problems of functional planning, research on building requirements, and recognized methods of constructions.

Messrs. Harris, Shawcroft, Shogren

ARC 312 Materials and Specifications**3 (3-0) s**

Prerequisite: ARC 202

Required of third year students in Architecture

Functional and physical characteristics of building materials; the preparation of architectural specifications.
Mr. Waugh**ARC 377, 378 Environmental Factors****3 (3-0)**An investigation of environmental factors affecting architectural design. Heating and cooling systems; and controls and principles of plumbing including venting, drainage, demand and load calculations, water distribution, pipe sizing, storm drainage and sprinkler systems in first semester. Lighting and acoustical design and electrical equipment and design in second semester.
Mr. Kahn**ARC 401, 402 Architectural Design V, VI****6 (3-12) f s**

Prerequisites: ARC 302, CE 339, EM 301

Required of fourth year students in Architecture

The design of large buildings or building complexes and economic and sociological influences on them, stressing the use of technology and industrialization. Emphasis on the logical coordination of the many factors of building design.
Mr. Harris**ARC 421, 422 Structural Design I, II****3 (3-3) f s**

Prerequisite: CE 339

Required of fourth year students in Architecture

Principles and applications of steel and timber design; principles and application of reinforced concrete design; and elements of foundations.
Mr. Kahn**ARC 501, 502 Architectural Design VII, VIII****7,9 (3-12) f s**

Prerequisites: ARC 402, ARC 300

Required of fifth year students in Architecture

A continuation of ARC 401, 402 with special emphasis on the development of arch-typical designs and the use of subjective selection by the designer. An architectural thesis is required in the spring semester.
Mr. Glowczewski**ARC 511 Professional Practice****2 (2-0) f**

Prerequisite: ARC 312

Required for graduation in Architecture

A study of the ethics, organization, and procedures of professional architectural practice; building codes, and legal obligations.
Mr. Boaz**ARC 531, 532 Structural Design III, IV****2 (2-2) f s**

Prerequisite: ARC 422

Required of fifth year students in Architecture

Comparative study of structures and structural elements; their possibilities and limitations; review and discussion of structural principles. Engineering consultation.
Mr. Kahn

Biology

BS 301 Fundamentals of Biology**3 (3-0) s**

A survey of the major principles of the biological sciences. A course designed for students who have not had a college course in the biological sciences.

Staff

Botany and Bacteriology

Courses for Undergraduates

BO 103 General Botany**4 (3-2) f s**An introduction to the field of Botany. Emphasis is placed on the structure, physiology and sexual reproduction of green and non-green plants and on the principles of heredity and ecology as they apply to these groups. The course may serve as a terminal course or as an introduction prior to further study in Botany.
Mr. Cooper

BO 201 Aquatic Vascular Plants**2 (1-2) f**

Prerequisite: BO 103

A comprehensive survey of marsh and aquatic vascular plants with emphasis on identification and habitat relationships. (Offered in alternate years. Given in 1962-63.)

Mr. Beal

BO 214 Dendrology**4 (2-4) s**

Prerequisite: BO 103

A systematic survey of the evergreen (gymnosperm) and hardwood (angiosperm) genera and species of North American trees. Emphasis is upon terminology, structure, relationships, and identification of woody plants.

Mr. Hardin

BO 301 General Morphology**3 (2-3) f**

Prerequisite: BO 103 or equivalent

A survey of the principal groups of plants from the standpoint of their structure, development and reproduction. Emphasis is placed on evolutionary relationships as revealed by comparisons in body organization and life histories of living and extinct forms. Some time is spent on general identification of the plants in their native habitats.

Mr. Hardin

BO 403 Systematic Botany**3 (0-6) s**

Prerequisite: BO 103

A systematic survey of vascular plants emphasizing field identification, terminology, and general evolutionary relationships.

Mr. Beal

BO 412 General Bacteriology**4 (2-4) f**

Prerequisites: CH 103 or 107 (CH 221, 215 or 411 recommended but not required)

An advanced biology course dealing with bacteria and other microorganisms, their structure, development, and function. Emphasis is placed on the fundamental concepts and techniques in microbiology such as isolation, cultivation, observation, morphology, and the physiology and nutrition of bacteria. The applications of microbiology, the role of microbes in nature, and their role in infection and immunity are considered.

Mr. Elkan

BO 421 Plant Physiology**4 (2-4) f s**

Prerequisites: BO 103, 2 courses in chemistry

An introductory treatment of the chemical and physical processes occurring in higher green plants with emphasis upon the mechanisms, factors affecting, correlations between processes, and biological significance.

Messrs. Scofield and Troyer

BO 441 Plant Ecology**3 (2-3) f**

Prerequisite: BO 103

An introduction to the study of plants in relation to their environment. Major topics considered are: factors of the environment; the structure, analysis, and dynamics of plant communities; past and present distribution of vegetation types.

Mr. Cooper

Courses for Graduates and Advanced Undergraduates**BO 505 (FS 505) Food Microbiology****BO 511 Advanced Bacteriology****3 (1-4) s**

Prerequisites: BO 412, CH 220, 221 or 223

This course will present the principles and techniques of isolation and characterization of bacteria from a wide range of habitats. Particular stress will be given to the principles of enrichment techniques, differential and selective media, and pertinent diagnostic tests that are applicable to particular groups of bacteria.

Messrs. Evans and Elkan

BO 512 Morphology of Vascular Plants**3 (1-6) f**

Prerequisite: BO 103

A study of comparative morphology, ontogeny and evolution of the vascular plants. Emphasis is placed upon the phylogeny of sexual reproduction and of the vascular systems.

Mr. Ball

BO 513 Plant Anatomy**3 (1-6) s**

Prerequisite: BO 103

A study of the anatomy of the Angiosperms and Gymnosperms. The development of tissues is traced from their origin by meristems to their mature states.

Mr. Ball

BO 514 Introductory Bacterial Physiology**3 (3-0) f**

Prerequisites: BO 412, CH 220, 221 or 223; CH 351 or 551 (May be taken concurrently.)

Emphasis will be placed on general principles and function with respect to the living cell. Included will be a study of cell structure, growth, death, reproduction, nutrition, and metabolism. An attempt will be made to illustrate the application of basic principles to applied areas of bacteriology and to other areas of basic science.

Mr. Evans

BO 521 Systematic Botany of Monocot Families**3 (0-6) f**

Prerequisites: BO 103, 403

A comprehensive survey of the systematics and evolution of monocot families. Special emphasis is given to terminology, morphology, identification and relationships. (Offered alternate years. Not given in 1962-63.)

Mr. Beal

BO 523 Systematic Botany of Dicot Families**3 (2-3) f**

Prerequisites: BO 103, 403

A comprehensive survey of the systematics and evolution of dicot families. Special emphasis is given to terminology, morphology, identification and relationships. (Offered alternate years. Given in 1962-63.)

Mr. Hardin

BO 531 (SOI 532) Soil Microbiology**BO 534 Physiology of Plant Cells****3 (3-0) f**

Prerequisite: BO 421 or equivalent. Advanced preparation in chemistry or physics may be substituted with the permission of the instructor.

An advanced treatment of basic plant processes at the cellular level with emphasis on theoretical principles.

Mr. Troyer

BO 535 Water, Solute, and Gas Relations of Plants**2 (2-0) s**

Prerequisite: BO 534

An advanced treatment of processes of higher plants involving exchange of materials between the plant and its surroundings and movement of materials within the plant. Theoretical principles are emphasized. (Offered alternate years. Given in 1962-63.)

Mr. Troyer

BO 536 Growth and Development of Plants**2 (2-0) s**

Prerequisite: BO 534

An advanced treatment of the physiology of growth and development of higher plants, with emphasis on theoretical principles. (Offered alternate years. Not given in 1962-63.)

Mr. Troyer

BO 544 Plant Geography**3 (3-0) s**

Prerequisites: BO 403, 441, GN 441, or equivalents

A course in descriptive and interpretive plant geography, synthesizing data from the fields of ecology, genetics, geography, paleobotany, and taxonomy. The course will include a survey of the present distribution of major vegetation types throughout the world, a discussion of the history and development of this present pattern of vegetation, and a discussion of the principles and theories of plant geography. (Offered alternate years. Given in 1962-63.)

Mr. Cooper

BO 545 Advanced Plant Ecology**3 (2-3) s**

Prerequisites: BO 421, 441 or equivalents

An advanced consideration, through class discussions and individual projects, of the principles, theories and methods of plant ecology.

Mr. Cooper

BO 570 (CE 570) Sanitary Microbiology**3 (2-3) s**

Prerequisites: AGE 211, EM 321

Fundamental aspects of microbiology and biochemistry are presented and related to problems of stream pollution, refuse disposal and biological treatment. Laboratory exercises present basic microbiological techniques and illustrate from a chemical viewpoint some of the basic microbial aspects of waste disposal.

Mr. Elkan

BO 574 Phycology**3 (1-4) s**

Prerequisite: BO 103 or equivalent

A systematic study of the structure and classification of the algae, both fresh-water and marine. The life history and ecology of important local species will be emphasized.

Mr. Whitford

Courses for Graduates Only**BO 614 (ANS 614) Bacterial Metabolism****BO 620 Advanced Taxonomy****3 (2-2) s**

Prerequisites: BO 521, 523 or permission of instructor

A course in the principles of plant taxonomy including the history of taxonomy, systems of classification, rules of nomenclature, taxonomic literature, taxonomic and biosystematic methods, and monographic techniques.

Mr. Hardin

BO 632 (SSC 632) Advanced Soil Microbiology**BO 635 The Mineral Nutrition of Plants****3 (2-3) s**

Prerequisites: BO 421 and a course in Biochemistry

Discussion of diffusion, molecular specificity and energetics of active transport. The physical chemistry of the essential elements and its significance to their biochemical functions.

Mr. Kahn

BO 636 Discussions in Plant Physiology**1 (1-0) s**

Prerequisite: BO 534

Group discussions at an advanced level of selected topics of current interest in plant physiology.

Mr. Troyer

BO 640 Special Problems in Bacteriology**Credits by arrangement f s**

Directed research in some specialized phase of bacteriology other than a thesis problem but designed to provide experience and training in research.

Graduate Staff

BO 641 Research in Bacteriology**Credits by arrangement f s**

Original research preparatory to writing a master's thesis or a Ph.D. dissertation.

Graduate Staff

BO 650 Special Problems in Botany**Credits by arrangement f s**

Directed research in some specialized phase of botany other than a thesis problem but designed to provide experience and training in research.

Graduate Staff

BO 651 Research in Botany**Credits by arrangement f s**

Original research preparatory to writing a master's thesis or a Ph.D. dissertation.

Graduate Staff

BO 660 Bacteriology Seminar**1 (1-0) f s**

Specific articles, progress reports in research, and special problems of interest to bacteriologists are reviewed and discussed. Graduate student credit allowed if one paper per semester is presented at seminar.

Graduate Staff

BO 661 Botany Seminar**1 (1-0) f s**

Scientific articles, progress reports in research, and special problems of interest to botanists are reviewed and discussed. Graduate student credit allowed if one paper per semester is presented at seminar.

Graduate Staff

Ceramic Engineering

Courses for Undergraduates

MIC 210 Ceramic Materials and Processes **3 (2-3) f s**
Designed for students not majoring in Ceramic Engineering. Includes raw materials, forming processes, effect of thermal treatment, properties and uses of ceramic products. Lecture and Laboratory.

MIC 301 Ceramic Operations I **4 (3-3) f**
Prerequisite: MIM 201
Unit operations pertaining to ceramic product manufacture. Crushing, grinding, particle size classification and packing. Colloidal and rheological properties of slips, slurries, and plastic masses. Lecture and Laboratory.

MIC 302 Ceramic Operations II **3 (2-3) s**
Prerequisites: MIC 301, PY 201
A continuation of MIC 301. Dewatering of slips and slurries. Properties of air and air-vapor mixtures, heat transmission, fluid flow, drying, drier calculations, furnaces, kilns and kiln calculations. Lecture and Laboratory.

MIC 312 Ceramic Process Principles I **4 (3-3) s**
Corequisite: MIC 302
Effect of heat on non-metallic minerals. Thermodynamic calculations. Industrial fuels and combustion, review of heterogeneous equilibria. Crystal structures. Pyrochemical and pyro-physical changes in ceramic bodies. Lecture and Laboratory.

MIC 413 Ceramic Process Principles II **4 (3-3) f**
Prerequisites: MIC 312, CH 532
A continuation of MIC 312. A study of the glassy state to include structure of glass, properties and types of glasses. Glazes, enamels, opacity, color and devitrification. Nature of glassy phases in kiln fired ceramic bodies. Lecture and Laboratory.

MIC 414 Senior Thesis **3 (1-6) f s**
One semester required of seniors in Ceramic Engineering. A second semester may be elected. An introduction to research. Literature search, laboratory investigation and written report in the form of a thesis. Conference and laboratory.

MIC 415, 416 Ceramic Engineering Design **2 (0-6) f s**
The methods of design of ceramic equipment, structures and plant designing.

MIC 420 Industrial Ceramics **3 (3-0) s**
A study of the various ceramic industries, including manufacturing techniques, labor and professional relationships, and the present and future status of the respective industries. Lectures and discussion.

MIC 425 Seminar **1 (1-0) f s**
One semester required of seniors in Ceramic Engineering. A second semester may be elected. Literature survey of selected topics in Ceramic Engineering. Oral and written reports, discussions.

Courses for Graduates and Advanced Undergraduates

MIC 503 Ceramic Microscopy **3 (2-3) f s**
Prerequisite: MIC 531
Petrographic techniques for the systematic study of ceramic materials and products. Interpretation and representation of results.

MIC 505 Research and Control Methods**3 (2-3) s**

Prerequisite: MIC 413

Interpretation of results, instrumental methods applied to research and product development.
Statistical quality control.

MIC 507, 508 Advanced Ceramic Experiments**3 (1-6) f s**

Prerequisite: MIC 414 or equivalent

Advanced studies in ceramic laboratory experimentation.

MIC 511 Advanced Studies in Firing**3 (2-3) f s**

Prerequisite: MIC 413

Advanced studies of ceramic firing procedures with emphasis on the design, calculation and economic evaluation of kilns and furnaces.

MIC 522 Structural Clay Products**3 (3-0) s**

Prerequisite: MIC 413

The technology of the structural clay products industries with emphasis on the latest developments in the field.

MIC 527 Refractories in Service**3 or 3**

Prerequisite: CH 342

A study of the physical and chemical properties of the more important refractories in respect to their environment in industrial and laboratory furnaces.

MIC 540 Glass Technology**3 or 3**

Prerequisite: MIC 413

Fundamentals of glass manufacture including compositions, properties and application of the principle types of commercial glass.

MIC 548 Technology of Cements**3 (3-0) s**

Prerequisite: MIC 413

The technology of the Portland cement industry including manufacture, control and uses.

Courses for Graduates Only**MIC 601 Ceramic Phase Relationships****3 or 3**

Prerequisite: Consent of Instructor

Heterogeneous equilibrium, phase transformations, dissociation, fusion, lattice energy, defect structures, thermodynamic properties of ionic phases and silicate melts.

MIC 605, 606 Crystal Structures**2 (2-0) f s**

Prerequisite: CH 342

Basic laws of crystal structure. Relation of crystal structure to chemical and physical properties.

MIC 613 Ceramic Thermal Mineralogy**3 (3-0) s**

Prerequisite: MIC 605

Applications of the principles of thermo-chemical mineralogy to ceramic problems.

MIC 615, 616 High Temperature Technology**3 (2-3)**

Prerequisite: MIC 613

An advanced consideration of the generation of high temperatures, furnace designs, and atmosphere controls. Theory of sintering hot pressing and thermo-chemical properties of high-temperature materials.

MIC 650 Ceramic Research**1 to 9 credits per semester**

An original and independent investigation in ceramic engineering. A report of such an investigation is required as a graduate thesis.

MIC 660 Ceramic Engineering Seminar**1 (1-0) f s**

Reports and discussion of special topics in ceramic engineering and allied fields.

MIC 661 Special Studies in Ceramic Engineering**1 to 3 credits per semester**

Special studies of advanced topics in ceramic engineering. Credit will vary with the topic.

Chemical Engineering

Courses for Undergraduates

CHE 205 Chemical Process Principles
4 (3-2) f

Prerequisites: MA 102, CH 103

Required of sophomores in Chemical Engineering.

The calculation of material and energy balances, stoichiometry, gas laws, vapor pressure, humidity, saturation, thermophysics and thermochemistry. Three lectures and one problem period.

CHE 301, 302 Elements of Chemical Engineering
3 (3-0) f s

An introduction to principles of chemical engineering including calculations involved in industrial processes and equipment. The course is designed for students not majoring in chemical engineering.

CHE 311 Introductory Chemical Engineering
4 (3-3) s

Prerequisite: CHE 205

Required of sophomores in Chemical Engineering

A continuation of CHE 205. One laboratory period is devoted to typical chemical engineering measurements.

CHE 411 Unit Operations I
3 (3-0) s

Prerequisites: MA 202, PY 202

Required of juniors in Chemical Engineering

Principles of fluid flow, heat transfer, evaporation, etc., with emphasis on design calculations.

CHE 412 Unit Operations II
3 (3-0) f

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

A continuation of CHE 411 with emphasis on the diffusional operations such as absorption, distillation, extraction, drying, etc.

CHE 415 Chemical Engineering Thermodynamics
4 (3-2) f

Prerequisite: CHE 311

Required of juniors in Chemical Engineering

A study of the laws of thermodynamics and their application to chemical engineering problems. Emphasis on the theory, data and approximation methods as applied to physical and chemical systems.

CHE 421, 422 Reactor Energy Transfer
3 (3-0) f s

Prerequisites: MA 202, PY 202

Required courses in Nuclear Engineering curriculum

Thermodynamics, heat transfer and fluid flow with emphasis on problems and methods used in the design and analysis of nuclear reactors.

CHE 431, 432 Unit Operations Laboratory I and II
3 (1-6) f s

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

Laboratory work on typical apparatus involving the unit operations. Experiments are designed to augment the theory and data of the lecture courses and to develop proficiency in the writing of technical reports.

CHE 453 Chemical Processing of Radioactive Materials
3 (3-0)

Consideration of the unique procedures required for the bulk manipulation of radioactive chemicals. Particular attention is given to remote operational procedures of precipitation, centrifugation, conveying, solvent extraction and ion exchange. Design of apparatus involving low maintenance and ease of replacement and cleaning by safe methods is considered. Other topics include decontamination procedures and disposal of wastes.

CHE 460 Seminar

1 (1-0) f s

One semester required of seniors in Chemical Engineering.

Literature survey of selected topics in chemical engineering. Emphasis on written and oral presentation.

CHE 470 Chemical Engineering Projects

2 Arrange f s

Elective for seniors in Chemical Engineering

Introduction to research through experimental, theoretical and literature studies of chemical engineering problems. Oral and written presentation of reports.

Courses for Graduates and Advanced Undergraduates

CHE 525 Process Measurement and Control

3 Arrange f s

Prerequisite: CHE 411

Theory and application of methods for measuring, transmitting, recording and controlling such process variables as temperature, pressure, flow rate, liquid level, concentration, humidity, etc. Commercial instruments are utilized for study of a wide variety of industrial control problems. Recorder-controllers are available to simulating industrial control problems of varying difficulty.

CHE 527 Chemical Process Engineering

3 (3-0) s

Prerequisite: CHE 412

A study of selected chemical processes with emphasis on the engineering, chemical and economic factors involved.

CHE 540 Electrochemical Engineering

3 (3-0) s

Prerequisite: Physical Chemistry

The application of electrochemical principles to such topics as electrolysis, electroanalysis, electroplating, metal refining, etc.

CHE 541 Cellulose Industries

3 (3-0) f

Prerequisite: Organic Chemistry

Methods of manufacture and application of cellulose chemical conversion products. Emphasis placed on recent development in the fields of synthetic fibers, films, lacquers and other cellulose compounds.

CHE 542 Technology of Pulp and Paper

3 Arrange f

Prerequisite: Organic Chemistry

Fundamentals of pulp and paper manufacture with emphasis on recent advances in the field. One laboratory period per week is devoted to topics such as digestion and treatment of pulp, handsheet preparation and testing, fiber analysis and chemical and physical tests.

CHE 543 Technology of Plastics

3 (3-0) s

Prerequisite: Organic Chemistry

The properties, methods of manufacture and application of synthetic resins. Recent developments in the field are stressed.

CHE 545 Petroleum Refinery Engineering

3 (3-0) s

Prerequisite: CHE 412

An introduction to the petroleum industry including (1) nature of petroleum and its fractions, octane numbers, viscosity relationships, etc., (2) operations of thermal and catalytic cracking, stabilization, alkylation isomerization, crude fractionation, etc., (3) problem work covering high pressure phase relationships and related material.

CHE 546 Chemical Reaction Rates

3 (3-0) f

Prerequisite: CHE 415

A basic study of the rates of homogeneous reactions, heterogeneous reactions and catalysis.

CHE 551 Thermal Problems in Nuclear Engineering**3 (3-0)**

Prerequisite: ME 302 or 303 or CHE 411 or equivalent

The design and operation of nuclear reactors and the utilization of the power from them involves major problems in nearly every phase of heat transfer, and many important problems in fluid flow. Possible solutions to these problems are several affected by the influences of radiation on heat transfer media, hazards of handling radioactive substances, etc. The course considers the thermal problems of nuclear reactor design and the principles of fluid flow and heat transfer necessary to their solutions.

The course is intended for engineers and science students with backgrounds in physics and mathematics and elementary thermodynamics.

CHE 553 Separation Processes in Nuclear Engineering**3 (3-0)**

Prerequisite: CHE 412 or equivalent

A study of the principles and techniques of separation and purification of chemical components, based upon mass transfer by diffusion. Specific techniques covered are distillation, extraction, absorption and ion exchange, particularly in regard to continuous, counter-current operations. Special topics include a survey of fuel processing, technology of uranium processing, complexing actions of solvents and halide distillation.

The course is primarily intended for engineers and science students with backgrounds in mathematics, physics and elementary chemistry but who have had no previous course in separation processes.

CHE 570 Chemical Engineering Projects**3 Arrange f s**

Prerequisite or corequisite: CHE 412

A laboratory study of some phase of chemical engineering or allied field.

Courses for Graduates Only**CHE 610 Heat Transfer I****3 (3-0) f**

Prerequisite: CHE 411

An advanced course dealing primarily with heat transfer between liquids and solids, optimum operating conditions and design of equipment, conduction, heating and cooling of solids, radiant heat transmission.

CHE 611 Heat Transfer II**2 (2-0) s**

Prerequisite: CHE 610

An intensive study of recent advances in heat transfer and allied fields.

CHE 612 Diffusional Operations**3 (3-0) f**

Prerequisite: CHE 412

An advanced treatment of mass transfer particularly as applied to absorption, extraction, drying, humidification and dehumidification.

CHE 613 Distillation**3 (3-0)**

Prerequisite: CHE 412

Vapor-liquid equilibria of non-ideal solutions, continuous distillation of binary and multi-component systems, batch distillation, azeotropic and extraction distillation.

CHE 614 Drying of Solids**2 (2-0)**

Prerequisite: CHE 412

An advanced course on the mechanism of drying operations with application to design of equipment, such as cabinet, tunnel, rotary, drum and spray driers.

CHE 615 Thermodynamics I**3 (3-0) f**

Prerequisite: CHE 415

Advanced topics in Chemical Engineering thermodynamics including equilibria of physical and chemical systems, high pressure systems, generalized properties of hydrocarbons, etc.

CHE 616 Thermodynamics II**2 (2-0) s**

Prerequisite: CHE 615

An intensive study of recent advances in thermodynamics.

CHE 617 Catalysis of Industrial Reactions**3 (3-0)**

Prerequisite: CHE 546

A study of the mechanism of catalysis with emphasis on practical application to operation and design of industrial process.

CHE 631, 632 Chemical Process Design**3 (3-0) f s**

Prerequisite: CHE 412

Design and selection of process equipment, through solution of comprehensive problems involving unit operations, kinetics, thermodynamics, strength of materials and chemistry.

CHE 641, 642 Advanced Chemical Engineering Laboratory**2 Arrange f s**

Prerequisite: CHE 412

Advanced laboratory work in a selected field with emphasis on theory, techniques and performance of equipment.

CHE 650 Advanced Topics in Chemical Engineering**1 to 3 credits per semester f s**

A study of recent developments in chemical engineering theory and practice, such as ion exchange, crystallization, mixing molecular distillation, hydrogenation, fluorination, etc. The topic will vary from term to term.

CHE 660 Chemical Engineering Seminar**1 credit per semester f s**

Literature investigations and reports of special topics in chemical engineering and allied fields.

CHE 680 Chemical Engineering Research**1 to 9 credits per semester f s**

Independent investigation of an advanced chemical engineering problem. A report of such an investigation is required as a graduate thesis.

Chemistry

Courses for Undergraduates

CH 101 General Chemistry I**4 (3-2) f s**

The language of chemistry, fundamental chemical laws and theories, limited study of selected chemical elements, compounds, reactions, and processes.

Messrs. White, Blalock and staff

CH 103 General Chemistry II**4 (3-2) f s**

Prerequisite: CH 101

Homogeneous and heterogeneous equilibrium, oxidation and reduction, metallurgy, fundamental properties of metals, non-metals and their compounds, introductions to organic and nuclear chemistry, industrial applications of some metals, non-metals and their compounds. The laboratory work is mostly semimicro qualitative analysis.

Messrs. White, Blalock, and staff

CH 105 General Inorganic Chemistry**4 (3-3) f s**

The language of chemistry, fundamental laws and theories, limited study of selected chemical elements, compounds and reactions. Emphasis upon atomic structure. Designed for students who plan to take advanced courses in chemistry.

Messrs. Freedman and Jones

CH 106 General Inorganic Chemistry Laboratory**1 (0-3) f**

Corequisite: CH 105

Laboratory work to supplement the laboratory of CH 105.

Staff

CH 107 General Chemistry and Qualitative Analysis**4 (3-3) f s**

Prerequisite: CH 105

Homogeneous and heterogeneous equilibria and their applications to qualitative analysis; limited study of selected chemical elements, compounds, and reactions; introduction to nuclear chemistry. Emphasis upon ionic equilibria. The laboratory work is mainly semimicro qualitative analysis. Designed for students who plan to take advanced courses in chemistry.

Staff

- CH 108 General Chemistry and Qualitative Analysis Laboratory** 1 (0-3) f s
 Corequisite: CH 107
 Laboratory work to supplement CH 107. Staff
- CH 215 Quantitative Analysis** 4 (3-3) f s
 Prerequisite: CH 103
 One semester course in volumetric and gravimetric analysis. Includes techniques, stoichiometry and principles of neutralization, oxidation and precipitation methods and the chemistry of representative laboratory determinations. Mr. Oliver
- CH 220 Introductory Organic Chemistry** 4 (3-3) f s
 Prerequisite: CH 103
 An introduction to the fundamental principles of organic chemistry included in the study of the hydrocarbons, alcohols, ethers, aldehydes, ketones, acids and derivatives, esters, phenols, fats, carbohydrates, amino acids, proteins, and a selected group of natural and synthetic products. Mr. Robinson
- CH 221 Organic Chemistry I** 4 (3-3) f s
 Prerequisite: CH 107 or CH 103
 Fundamentals of organic chemistry covering both aliphatic and aromatic compounds. Messrs. Loeppert and Reid
- CH 222 Organic Chemistry Laboratory** 1 (0-3) f
 Corequisite: CH 221
 Laboratory work to supplement CH 221 Staff
- CH 223 Organic Chemistry II** 4 (3-3) f s
 Prerequisite: CH 221
 A continuation of CH 221 Messrs. Loeppert and Reid
- CH 224 Organic Chemistry Laboratory** 1 (0-3) s
 Corequisite: CH 223
 Laboratory work to supplement CH 223 Staff
- CH 231 Introductory Physical Chemistry** 4 (3-3) f s
 Prerequisites: CH 103 and MA 112
 Designed for students whose background in mathematics and physics is not sufficient to meet the requirements of the CH 431-433 physical chemistry course, but who desire instruction on chemical principles in addition to that provided at the freshmen level. Staff
- CH 351 Introductory Biochemistry** 3 (2-3) f s
 Prerequisite: CH 220
 The fundamental chemistry of living matter. Mr. Ingram

Courses for Advanced Undergraduates

- CH 411 Analytical Chemistry I** 4 (2-6) s
 Prerequisites: CH 431, 432; Corequisites: CH 433, 434
 An introduction to analytical chemistry, including both classical and modern techniques involving the distribution of a component between phases; for example, gravimetric methods, gas chromatography and adsorption. Messrs. Long and Pinkerton
- CH 413 Analytical Chemistry II** 4 (2-6) f
 Prerequisite: CH 411
 A continuation of Analytical Chemistry I with emphasis upon modern approaches to acid-base chemistry, oxidation-reduction, potentiometric methods, and spectrophotometry. Messrs. Long and Pinkerton

CH 420 Organic Preparations**3 (1-6) f s**

Prerequisites: Three years of chemistry including CH 223

Experiments selected to acquaint the student with advanced methods and techniques in the preparation of organic substances.
Mr. Doak**CH 431-433 Physical Chemistry I and II****3 (3-0) f s**

Prerequisites: CH 107, MA 202 and PY 202

An intensive study of the states of matter, solutions, colloids, homogeneous and heterogeneous equilibrium, reaction kinetics, electrolysis, conductance, oxidation reactions, and ionic equilibrium.
Messrs. Getzen, Bowen, and Sutton**CH 432-434 Physical Chemistry Laboratories****1 (0-3) f s**

Corequisites: CH 431 and CH 433

Laboratory courses to accompany lecture work in Physical Chemistry I and II respectively.
Staff**CH 435 Physical Chemistry III****3 (3-0) f**

Prerequisite: CH 433

An intensive study of the structure of atoms and molecules, an introduction to statistics, and selected topics in modern physical chemistry.
Staff**CH 441 Colloid Chemistry****3 (2-3) s**

Prerequisites: CH 220 and CH 215

Adsorption, preparation, properties, constitution, stability, and application of sols, gels, emulsions, foams, and aerosols; dialysis, Donnan membrane equilibrium.
Mr. Getzen**CH 491 Reading in Honors Chemistry****Credits by arrangement f s**A reading course for exceptionally able students at the senior level. The students will do extensive reading in areas of advanced chemistry and will present written reports of their findings.
Staff**Courses for Graduates and Advanced Undergraduates****CH 501 Inorganic Chemistry I****3 (3-0) f**

Prerequisite: CH 433

A course in modern inorganic chemistry from the point of view of the chemical bond. Topics covered are: chemical periodicity and its origins in atomic structure; the ionic bond and electronegativity; crystal structure and bonding in ionic solids; the metallic state, conduction and semiconductors; the preparation and properties of illustrative compounds.
Mr. Pinkerton**CH 503 Inorganic Chemistry II****3 (3-0) s**

Prerequisite: CH 501

A continuation of CH 501. Topics covered are: the hydrogen molecule-ion and the theory of the covalent bond; molecular orbitals and hybridization; dipole moments and magnetic properties; the theory of acids and bases; non-aqueous solvents; coordination compounds, carbonyls and quasi-aromatic compounds; and the chemistry of the transition metals, lanthanides and actinides.
Mr. Long**CH 511 Chemical Spectroscopy****4 (2-6) f**

Prerequisite: CH 433

Theory, analytical applications and interpretation of spectra as applied to chemical problems. Major emphasis will be placed upon ultraviolet, visible and infrared spectra.
Mr. Long**CH 512 (TC 512) Chemistry of High Polymers**

CH 513 Electroanalytical Chemistry**4 (3-3) s**

Prerequisite: CH 413

A course in electroanalytical chemistry including the foundations of theoretical electrochemistry. Topics covered are: Potentiometric measurements and electrical resistance; diffusion, transport; theory of dilute solutions; polarography and amperometric measurements; surface effects and electrode kinetics; electrochemistry in non-aqueous systems.

Mr. Pinkerton

CH 521 Advanced Organic Chemistry I**3 (3-0) f**

Resonance, reaction mechanisms; hydrocarbons, organic halides, alcohols, amines, and carbonyl compounds.

Mr. Doak

CH 523 Advanced Organic Chemistry II**3 (3-0) s**

Stereochemistry, steroids and other natural products, organometallics, and heterocycles.

Mr. Doak

CH 525 Physical Organic Chemistry**3 (3-0) s**

Prerequisites: CH 223 and CH 433

Theoretical and physical aspects of organic chemistry; structure and mechanism in organic chemistry.

Mr. Loepfert

CH 527 Chemistry of Metal-Organic Compounds**3 (3-0) f**

Prerequisites: Three years of chemistry including CH 223

A study of the preparation, properties and reactions of compounds containing the carbon-metal bond, with a brief description of their uses.

Mr. Doak

CH 528 Qualitative Organic Analysis**3 (1-6) f**

Prerequisites: Three years of chemistry including CH 223

A study of class reactions, functional groups, separation, identification and preparation of derivatives.

Staff

CH 529 Quantitative Organic Analysis**3 (1-6) s**

Prerequisites: CH 223 and CH 413

Quantitative determination of carbon, hydrogen, nitrogen, the halogens, sulfur and various functional groups in organic materials, with emphasis on semimicro methods.

Staff

CH 531 Chemical Thermodynamics**3 (3-0) f**

Prerequisites: CH 433 and MA 301

An extension of elementary principles to the treatment of ideal and real gases, ideal solutions, electrolytic solutions, galvanic cells, surface systems, and irreversible processes. An introduction to statistical thermodynamics and the estimation of thermodynamic functions from spectroscopic data.

Mr. Sutton

CH 533 Chemical Kinetics**3 (3-0) s**

Prerequisites: CH 433 and MA 301

An intensive survey of the basic principles of chemical kinetics with emphasis on experimental and mathematical techniques, elements of the kinetic theory, and theory of the transition state. Applications to gas reactions, reactions in solution, and mechanism studies.

Mr. Bowen

CH 535 Surface Phenomena**3 (3-0) s**

Prerequisites: CH 433 and MA 301

An intensive survey of the topics of current interest in surface phenomena. This course is designed to cover the foundations of the present understanding of surface behavior. Formulation of basic theories are presented together with illustrations of their current applications.

Mr. Getzen

CH 537 Quantum Chemistry**3 (3-0) s**

Prerequisites: CH 435, PY 401 and PY 407

The elements of wave mechanics applied to stationary energy states and time dependent phenomena. Applications of quantum theory to chemistry, particularly chemical bonds.

Mr. Coots

CH 543 Radioisotope Principles**3 (3-0) f**

Prerequisites: CH 433, PY 202 and MA 202

A presentation of the basic knowledge of radioactivity, nuclear reactions, ionizing radiations, and radiochemistry essential to competence in the use of radioisotopes. Mr. Coots

CH 544 Radioisotope Techniques**1 (0-3) f**

Corequisite: CH 543

A laboratory course in the physical and chemical techniques essential to competence in the use of radioisotopes. Mr. Coots

CH 545 Radiochemistry**3 (3-0) s**

Prerequisites: CH 543, or PY 407 and PY 410

An advanced presentation of the applications of radioactivity to chemistry and of the applications of chemistry to the radioactive elements, particularly the heavy elements and fission products. Mr. Coots

CH 546 Radiochemistry Laboratory**1 (0-3) s**

Corequisite: CH 545

The laboratory work associated with CH 545 Radiochemistry. Mr. Coots

CH 551 General Biological Chemistry**5 (3-6) f**

Prerequisites: 3 years of chemistry including CH 223

The chemical constitution of living matter. Biochemical processes as well as compounds are studied. Mr. Peterson

CH 553 Chemistry of Proteins and Nucleic Acids**3 (3-0) s**

Prerequisite: CH 551

Composition, distribution, structure, properties and metabolism of amino acids, proteins and nucleic acids. Mr. Armstrong

CH 555 Plant Chemistry**3 (2-3) s**

Prerequisite: CH 551

Composition of plants, properties, nature, and classification of plant constituents, changes occurring during growth, ripening and storage of plant products. Mr. Sisler

Courses for Graduates Only**CH 621 (ANS 621) Enzymes and Intermediary Metabolism****4 (3-0) s**

Prerequisite: CH 551

A study of the properties of enzymes and enzyme action, intermediary metabolism of carbohydrates, amino acids, fatty acids, vitamins, purines and porphyrins, metabolic energy relationships. Mr. Tove

CH 622 (ANS 622) Principles of Biological Assays**3 (2-2) s**

Prerequisites: CH 551 or ANS 312 and ST 512

Techniques and designs of biological assays for vitamins; interrelationships of logical principles, design, and analysis is emphasized. Staff

CH 631 Chemical Research**Credits by arrangements f s**

Prerequisites: Forty semester credits in chemistry. Open to all graduates.

Special problems that will furnish material for a thesis. A maximum of 6 semester credits is allowed toward a master's degree, no limitation on credits in doctorate programs. Staff

CH 641 Seminar**Credits by arrangement f s**

Prerequisite: Graduate standing in chemistry.

Required of graduate students specializing in chemistry.

Scientific articles, progress reports in research, and special problems of interest to chemists are reviewed and discussed.

A maximum of two semester credits is allowed toward the master's degree, but any number toward the doctorate. Staff

CH 651 Special Topics in Chemistry**Maximum 3 credits f s**

Prerequisite: Graduate standing in chemistry

Critical study of some special problems in one of the branches of chemistry involving original investigation together with a survey of pertinent literature. **Staff****CH 671 Advanced Physical Chemistry****3 (3-0) f**

Prerequisite: CH 533

Involves a thorough review of the fundamental principles of physical chemistry with extension and application of these to the study of solid state. **Mr. Sutton****CH 672 Advanced Physical Chemistry****3 (3-0) s**

Prerequisite: CH 671

There will be laid down the elements of statistical mechanics and kinetic theory, in terms of which certain topics from CH 671 will be more exhaustively developed. **Mr. Sutton**

Civil Engineering

Courses for Undergraduates

CE 201 Surveying I**3 (2-3) f s**

Prerequisite: MA 101

Required of sophomores in Civil Engineering, Civil Engineering Construction Option, Forestry, and juniors in Geological Engineering

Elements of plane surveying: taping, transit, level, stadia, plane table, topographic surveying and mapping, care and adjustment of instruments; public land surveys.

CE 202 Surveying II**3 (2-3) s**

Prerequisite: CE 201

Required of sophomores in Civil Engineering and Civil Engineering Construction Option

Construction surveys; earthwork computations, route surveys, simple, compound, parabolic and special curves; elementary astronomical surveying.

CE 305, 306 Transportation Engineering I, II**3 (2-2) f s**

Prerequisite: CE 202

Transportation systems; elements of railroad, highway, traffic and airport engineering; physical and mechanical properties of soil that govern their use as engineering materials.

CE 321 Materials Testing Laboratory I**2 (1-3) f s**

Prerequisite: EM 200

Physical properties of aggregates. Manufacture and chemical properties of cementing agents. Physical properties of wet and hardened concretes; design and proportioning of concrete mixes; tensile, compressive, and flexural properties of plain and reinforced concrete.

CE 322 Materials Testing Laboratory II**2 (1-3) f s**

Corequisite: EM 301

Properties of clay and cement masonry units. Growth, structure and mechanical properties of various species of wood. Production and mechanical properties of structural metals; elastic and plastic tensile properties of steel. Test of riveted and welded joints.

CE 324 Structural Analysis I**3 (2-3) s**

Prerequisite: EM 200; Corequisite: EM 301

Required of juniors in Civil Engineering and Civil Engineering Construction Option

Stress analysis of statically determinate beams and framed structures under fixed and moving loads; influence line treatment for moving loads; analysis and design of a simple truss.

CE 338 Structures I**3 (3-0) f**

Prerequisite: EM 200

Required of juniors in Architecture

Analysis of simple structures, reactions, shear and moment diagrams; stresses in members of framed structures; graphic statics.

CE 339 Structures II**3 (3-0) s**

Prerequisites: CE 338 and EM 301

Required of juniors in Architecture

Analysis of indeterminate structures; slopes and deflections; analysis of indeterminate frames by moment distribution.

CE 361 Estimates and Costs I**3 (2-3) f**

Prerequisite: Junior standing

Required of juniors in Civil Engineering Construction Option

Interpretation of working drawings; analysis of construction plans and specifications; approximate and detailed estimates of costs.

CE 362 Estimates and Costs II**3 (2-3) s**

Prerequisite: CE 361

Required of juniors in Civil Engineering Construction Option

Preparation of complete costs estimates of construction projects; bidding procedures and preparation of bids.

CE 382 Hydraulics**3 (3-0) f s**

Prerequisite: EM 200

Required of juniors in Civil Engineering

Properties of fluids and mechanics of fluid flow in pipes and open channels; theory of design and characteristics of pumps and hydraulic motors; measurement of fluid flow.

Courses for Advanced Undergraduates**CE 425 Structural Analysis II****3 (2-3) f**

Prerequisites: CE 324 and EM 301

Required of seniors in Civil Engineering

Deflection of beams and trusses; indeterminate stress analysis by moment area, slope deflection and moment distribution.

CE 427 Structural Design I**4 (3-3) f**

Prerequisites: EM 301 and CE 324

Required of seniors in Civil Engineering and Civil Engineering Construction Option

Analysis and design of reinforced concrete building elements; design of tension, compression and simple flexural members of steel and of timber.

CE 428 Structural Design II**3 (1-6) s**

Prerequisites: CE 427 and CE 425

Required of seniors in Civil Engineering

Design specifications; connection details; independent and complete design of engineering structures.

CE 429 Structural Design III**3 (2-3) s**

Prerequisite: CE 427

Required of seniors in Civil Engineering Construction Option

Design of tension, compression and flexural elements of steel and timber; solution of problems in erection, forms, shoring and falsework.

CE 442 Soil Mechanics**3 (2-3) f**

Prerequisite: CE 305

Required of seniors in Civil Engineering

Fundamental stress relations, Mohr's rupture hypothesis, shearing strength, earth pressure theories, bearing capacity, stability of slopes, hydrostatics, and hydrodynamics of ground water.

CE 443 Foundations**3 (3-0) s**

Prerequisite: CE 427

Required of seniors in Civil Engineering Construction Option

Identification and classification of soils; geological aspects of foundation engineering; method of investigating subsoil conditions; control of water; type of foundations and conditions favoring their use; legal concepts of foundation engineering.

CE 461 Project Planning and Control I**3 (2-3) f**

Prerequisite: CE 362

Required of seniors in Civil Engineering Construction Option

Analysis of construction plant layout requirements and performance characteristics of equipment.

CE 462 Project Planning and Control II**3 (2-3) s**

Prerequisite: CE 461

Required of seniors in Civil Engineering Construction Option

Scheduling, analysis and control of construction projects.

CE 464 Legal Aspects of Contracting**3 (3-0) s**

Prerequisite: Senior standing

Required of seniors in Civil Engineering Construction Option, elective

Legal aspects of construction contract documents and specifications; owner-engineering-contractor relationships and responsibilities; bids and contract performance; labor laws.

CE 481 Hydrology and Drainage**2 (2-0) f**

Prerequisite: CE 382

Required of seniors in Civil Engineering

Occurrence and distribution of rainfall; runoff, surface and ground waters; design of drainage and control structures.

CE 482 Water and Sewage Works**3 (3-0) s**

Prerequisite: Senior standing

Required of seniors in Civil Engineering

Water supply analysis and design, including population estimates, consumption, source selection aqueducts, distribution systems and pumping stations; elements of water treatment; collection and disposal of sewage; elements of sewage treatment.

CE 485 Elements of Hydraulics and Hydrology**3 (3-0) f**

Prerequisite: EM 200

Required of seniors in Civil Engineering and Construction Option

Elements of fluid mechanics, hydraulics and hydrology, with application to problems in construction engineering.

CE 492, 493 Professional Practice I, II**1 (1-0) f s**

Prerequisite: Senior standing

Required of seniors in Civil Engineering and Civil Engineering Construction Option

Professional engineering societies and their functions; professional standards; topics of current interest to the civil engineer.

Courses for Graduates and Advanced Undergraduates

CE 507 Airphoto Analysis I**3 (2-3) f s**

Prerequisite: Junior standing

Engineering evaluation of aerial photographs, including analysis of soils and surface drainage characteristics.

CE 508 Airphoto Analysis II**3 (2-3) s**

Prerequisite: CE 507

Engineering evaluation of aerial photographs for highway and airport projects.

- CE 509 Photogrammetry** 3 (2-3) f s
 Prerequisite: CE 201
 Elements of photogrammetry as applied to surveying and mapping. Aerial and terrestrial photogrammetry. Flight planning and ground controls. Stereoscopy and stereoscopic plotting instruments. Measurements on photographs.
- CE 510 Advanced Surveying** 3 (2-3) f s
 Prerequisite: CE 202
 State coordinate systems and map projections. Elements of geodetic and astronomical surveying. Adjustment of observations by the method of least squares.
- CE 514 Municipal Engineering Projects** 3 (2-3) s
 Prerequisite: Senior standing
 Special problems relating to public works, public utilities, urban planning and city engineering.
- CE 515 Transportation Operations** 3 (3-0) f
 Prerequisite: CE 306
 The analysis of traffic and transportation engineering operations.
- CE 516 Transportation Design** 3 (2-3) f
 Prerequisite: CE 306
 The geometric elements of traffic and transportation engineering design.
- CE 524 Analysis and Design of Masonary Structures** 3 (3-0) f
 Corequisite: CE 425
 Analysis and design of arches, culverts, dams, foundations and retaining walls.
- CE 525, 526 Advanced Structural Analysis I, II** 3 (3-0) f s
 Prerequisite: CE 425
 Analysis of rigid frames and continuous structures; treatment of redundant members and secondary stresses.
- CE 527 Numerical Methods in Structural Analysis** 3 (3-0) s
 Prerequisite: CE 425
 Newmark's numerical integration procedure and its applications; matrix operations, relaxation and iteration, finite difference method. Force and displacement methods, string polygon method. High-speed computation.
- CE 531 Experimental Stress Analysis** 3 (2-3) f
 Prerequisite: CE 425
 Principles and methods of experimental analysis; dimensional analysis; applications to full-scale structures.
- CE 532 Structural Laboratory** 3 (1-6) s
 Prerequisite: CE 425
 Test procedures and limitations and interpretations of experimental results.
- CE 534 Plastic Analysis and Design** 3 (3-0) s
 Prerequisite: CE 427
 Analysis of steel structure behavior beyond the elastic limit; concept of design for ultimate load and the use of load factors. Analysis and design of component parts of frames. Methods of predicting strength and deformation behavior of structures loaded in the plastic range. Bracing and connection requirements for frames.
- CE 535 Ultimate Strength Theory and Design** 3 (3-0) f
 Prerequisite: CE 427
 Ultimate strength theories of axially loaded column flexure, combined flexure and axial load, shear. Critical review of important research and their relationship with the development of modern design codes for reinforced concrete.

CE 536 Theory and Design of Prestressed Concrete**3 (3-0) s**

Prerequisite: CE 427

The principles of prestressed concrete. Materials. Methods of prestressing. Loss of prestress. Design of beams for bending, shear and bond. Ultimate strength. Deflection. Composite beams. Continuous beams. Special topics. Design projects.

CE 544 Foundation Engineering**3 (3-0) f s**

Prerequisite: CE 442

Subsoil investigations; excavations; design of sheeting and bracing systems; control of water; footing, grillage and pile foundations caisson and cofferdam methods of construction; legal aspects of foundation engineering.

CE 547 Fundamentals of Soil Mechanics**3 (3-0) f s**

Prerequisite: EM 301

Physical and mechanical properties of soils governing their use for engineering purposes; stress relations and applications to a variety of fundamental problems.

CE 548 Engineering Properties of Soils I**3 (2-3) f**

Corequisite: CE 442

The study of soil properties that are significant in earthwork engineering, including properties of soil solids, basic clay mineral concepts, classification, identification, plasticity, permeability, capillarity and stabilization. Laboratory work includes classification, permeability and compaction tests.

CE 549 Engineering Properties of Soils II**3 (2-3) s**

Prerequisite: CE 548

Continuation of CE 548, including the study of compressibility, stress-strain relations and shear strength theories for soil. Laboratory work includes consolidation and shear strength tests.

CE 570 Sanitary Microbiology**3 (2-3) f s**

(See BO 570)

CE 571 Theory of Water and Sewage Treatment**3 (3-0) f**

Prerequisite: Senior Standing

Study of the physical and chemical principles underlying water and sewage treatment processes; diffusion of gases, solubility, equilibrium and ionization, anaerobic and aerobic stabilization processes, sludge conditioning and disposal.

CE 572 Unit Operations and Processes in Sanitary Engineering**3 (1-6) s**

Prerequisite: CE 571

Processes and operations in sanitary engineering; sedimentation, aeration, filtration, adsorption, coagulation, softening, sludge digestion, aerobic treatment of sewage.

CE 573 Analysis of Water and Sewage**3 (1-6) f**

Corequisite: CE 571

Chemical and Physical analysis of water and sewage and interpretation of results.

CE 574 Radioactive Waste Disposal**3 (2-3) f s**

Prerequisite: PY 410

Unit operations and processes employed in treatment and disposal of radioactive wastes.

CE 580 Flow in Open Channels**3 (3-0) f s**

Prerequisite: CE 481

The theory and applications of flow in open channels, including dimensional analysis, momentum-energy principle, gradually varied flow, high-velocity flow, energy dissipators, spillways, waves, channel transition and model studies.

CE 591, 592 Civil Engineering Seminar**1 (1-0) f s**

Discussion and reports of subjects in civil engineering and allied fields.

CE 598 Civil Engineering Projects
Special projects in some phases of civil engineering.

1 to 6 (arrange) f s

Courses for Graduates Only

CE 601 Transportation Planning 3 (2-3) s

Prerequisite: CE 515

The planning, administration, economics and financing of various transportation engineering facilities.

CE 602 Advanced Transportation Design 3 (2-3) s

Prerequisite: CE 516

Design of major traffic and transportation engineering projects.

CE 603 Airport Planning and Design 3 (2-3) f

Prerequisites: CE 515 and 516

The analysis, planning and design of air transportation facilities.

CE 604 Urban Transportation Planning 3 (2-3) s

Prerequisite: CE 515

Thoroughfare planning as related to land usage and urban master-planning.

CE 623 Theory and Design of Arches 3 (3-0) f

Prerequisites: CE 428 and CE 526

General theory of elastic arches. Boundary conditions and their effect on the behavior of the arch. Single span, multiple span arches on elastic piers, influence lines of various functions under moving loads, economical layout of arches, design criteria for steel and concrete arches.

CE 624 Analysis and Design of Structural Shells and Folded Plates 3 (3-0) s

Prerequisites: CE 623 and EM 511

Roof structures consisting of surfaces of revolution, both single and compound curved. Membrane stresses, bending stresses at boundaries. Domes and cylindrical shells. Approximate and exact analyses. Design of criteria. Folded plane structures of concrete plates and steel frames.

CE 625, 626 Advanced Structural Design I, II 3 (2-3) f s

Prerequisite: CE 428; Corequisites: CE 525 and 526

Complete structural designs of a variety of projects; principles of limit and prestress design.

CE 627 Design of Blast Resistant Structures 3 (3-0) f

Prerequisites: CE 526, CE 535 and EM 554

Sources, intensities, and methods of transmission of dynamic loads. Behavior of structural elements under dynamic loadings. Behavior of structural systems subjected to pulse and impact loads. Design criteria and factor of safety. Design of surface and underground structures for nuclear blasts.

CE 641, 642 Advanced Soil Mechanics 3 (3-0) f s

Prerequisite: CE 422 or corequisite: CE 547

Theories of soil mechanics; failure conditions; mechanical interaction between solids and water, and problems in elasticity pertaining to earthwork engineering; soil dynamics.

CE 643 Hydraulics of Ground Water 3 (3-0) f s

Prerequisite: CE 442 or 547

Principles of ground water hydraulics; theory of flow through idealized porous media; the flow net solution; seepage and well problems.

- CE 671 Advanced Water Supply and Sewerage** 4 (3-3) f
 Prerequisite: CE 482
 Problems relating to the design of water supply and sewerage works.
- CE 672 Advanced Water and Sewage Treatment** 4 (3-3) s
 Prerequisite: CE 482
 Problems relating to the treatment of water and sewage.
- CE 673 Industrial Water Supply and Waste Disposal** 3 (3-0) f s
 Corequisite: CE 571
 Water requirements of industry and the disposal of industrial wastes.
- CE 674 Stream Sanitation** 3 (3-0) f s
 Corequisite: CE 571
 Biological, chemical and hydrological factors that affect stream sanitation and stream use.
- CE 698 Civil Engineering Research** 1-6 (arrange) f s
 Independent investigation of an advanced civil engineering problem; a report of such an investigation is required as a graduate thesis.

Crop Science

Courses for Undergraduates

- CS 211 Field Crops I** 3 (2-2) f s
 Prerequisite: BO 103
 Discussion of fundamental principles underlying crop production. The application of these principles to the major and minor field crops. The elements of plant identification, crop grading and judging.
 Mr. Lewis
- CS 311 Field Crops II** 3 (2-2) f
 Prerequisites: CS 211, SSC 200
 Specific problems in field crop production other than forage crops. Discussion of those crops in farm rotations brings together all the major aspects of crop production for different climatic areas.
 Mr. Lewis
- CS 312 Pastures and Forage Crops** 3 (3-0) s
 Prerequisites: CS 211, SSC 200 recommended
 A study of the production and preservation of the principal forage crops. Special attention is given to the development and maintenance of pastures.
 Mr. Chamblee
- CS 412 Advanced Pastures and Forage Crops** 2 (2-0) s
 Prerequisite: CS 312
 Pasture species and management (cultural treatment) from an international viewpoint, and the inter-relationship of grazing animals on pasture development and management will be emphasized. Natural grassland and the place of special plant species will be considered.
 Mr. Gross
- CS 413 Plant Breeding** 3 (3-0) s
 Prerequisite: GN 411
 The application of genetic principles to the improvement of economic plants, including discussions of the methods employed in the development and the perpetuation of desirable clones, varieties and hybrids.
 Mr. Harvey
- CS 414 Weeds and Their Control** 3 (2-2) f
 Prerequisites: CS 211, CH 203 or equivalent
 Principles involved in cultural and chemical weed control. Discussions on chemistry of herbicides and the effects of the chemicals on the plant. Identification of common weeds and their seeds is given.
 Mr. Klingman

Courses for Advanced Undergraduates and Graduates

CS 511 Tobacco Technology

2 (2-0) s

Prerequisites: CS 311, BO 421 or equivalent

A study of special problems concerned with the tobacco crop. The latest research problems and findings dealing with this important cash crop will be discussed.

Mr. Jones

CS 521 Special Problems

Credits by arrangement

Prerequisite: Students admitted only with consent of instructor

Special problems in various phases in Crop Science. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Graduate Staff

CS 541 (GN 541 or HS 541) Plant Breeding Methods

3 (3-0) f

Prerequisites: GN 512, ST 511 recommended

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Haynes, Timothy

CS 542 (GN 542 or HS 542) Plant Breeding Field Procedures

2 (0-4)

(In Summer Sessions)

Prerequisite: CS 541 or GN 541 or HS 541

A laboratory and field study of the application of the various plant breeding techniques and methods used in the improvement of economic plants.

Mr. Harvey

Courses for Graduates Only

Students are to consult the instructor before registration.

CS 611 Forage Crop Ecology

2 (2-0) s

Prerequisites: CS 412, BO 441

A study of the effect of environmental factors on the growth of forage crops. Attention will be given to methods of research in forage ecology.

Mr. Chamblee

CS 612 Special Topics in Weed Control

2 (2-0) s

Prerequisites or corequisites: BO 403, BO 532 or 533, CS 414

Detailed examination of current concepts and literature of weed control. The chemistry, physiology, ecology, taxonomy, microbiology, equipment, and techniques used in weed control research will be discussed.

Graduate Staff

CS 631 Seminar

1 (1-0) f s

Prerequisite: Graduate standing

Scientific articles, progress reports in research, and special problems of interest to agronomists reviewed and discussed. A maximum of two credits is allowed toward the master's degree, however, additional credits toward the doctorate are allowed.

Graduate Staff

CS 641 Research

Credits by arrangement

Prerequisite: Graduate standing

A maximum of six credits is allowed toward the master's degree, but any number toward the doctorate.

Graduate Staff

Design

Courses for Undergraduates

DN 101, 102 Design I, II

3 (3-6) f s

Required of first year students in the School of Design

Introduction to the elements and expression of two and three dimensional design involving a variety of tools, materials, and techniques. Orientation of historical and contemporary concepts of art and architecture.

Messrs. Baron, Bireline, Macomber, Hertzman, Sappenfield, Stuart, Taylor

- DN 111, 112 Descriptive Drawing I, II** 2 (0-4) f s
 Required of first year students in the School of Design
 Problems in visual analysis with emphasis on the systems man has devised to describe his visual experience. Messrs. Bireline, Cox, Hertzman, Sappenfield, Taylor
- DN 121, 122 Technical Drawing I, II** 3 (2-4) f s
 Required of first year students in the School of Design
 Descriptive geometry and allied technical drawing. Lectures and simple exercises in analytical programming of architectural elements.
 Messrs. Boaz, Buisson, Glowczewski, Sappenfield, Shawcroft, Shogren, Thurlow
- DN 211, 212 Descriptive Drawing III, IV** 2 (0-4) f s
 Prerequisite: DN 112
 Required of second year students in the School of Design
 Problems continuing the studies begun in freshman year with the addition of the study of color and its effects. Messrs. Cox, Hertzman, Macomber, Sappenfield
- DN 311, 312 Advanced Descriptive Drawing I, II** 2 (0-6) f s
 Prerequisite: DN 212
 Required of third year students in the School of Design
 Advanced problems in the fields of painting, sculpture, drawing, and graphics.
 Messrs. Bireline, Cox, Stuart
- DN 321, 322 History of Architecture I, II** 3 (3-0) f s
 Prerequisite: HI 245
 Required of all students in Architecture and Landscape Architecture
 A critical study of architecture from prehistoric times to the present including references to landscape architecture, painting, sculpture, and artifacts. Mr. Buisson
- DN 411, 412 Advanced Descriptive Drawing III, IV** 2 (0-6) f s
 Prerequisite: DN 312
 Required of fourth year students in the School of Design
 Advanced problems in the fields of painting, sculpture, drawing, and graphics.
 Messrs. Bireline, Cox, Stuart
- DN 421, 422 History of Design, I, II** 3 (3-0) f s
 Prerequisite: HI 246
 Required of all students in Architecture and Landscape Architecture
 Specialized historical studies in design fields.
 Messrs. Clarke, Harris
- DN 511, 512 Advanced Descriptive Drawing V, VI** 2 (0-6) f s
 Prerequisite: DN 412
 Required of fifth year students in Landscape Architecture and Product Design
 Advanced problems in the fields of painting, sculpture, drawing, and graphics.
 Messrs. Bireline, Cox, Joslin, Stuart
- DN 541 Seminar on Ideas in Design** 2 (2-0) f
 Corequisites: ARC 501, LA 501 or PD 501
 Required of fifth year students in the School of Design
 An introduction to aesthetics and the relationships of philosophic thought to design.
 Mr. Kamphoefner

Economics

Courses for Undergraduates

- EC 201, 202 Economics** 3 (3-0) f s
 Fundamental principles applying to the organization and functioning of our economy.

EC 205 The Economic Process**3 (3-0) f s**

An analysis of the process and principles by which an economy allocates resources, distributes goods and income and determines rate of growth.

EC 301 Production and Prices**3 (3-0) f or s**

Prerequisite: EC 201 or EC 205

An intensive study of the functioning of the market economy. An examination of the role of prices in determining the allocation of resources, the functioning of the firm in the economy, and forces governing the production of economic goods.

EC 302 National Income and Economic Welfare**3 (3-0) f or s**

Prerequisite: EC 201 or EC 205

An intensive examination of factors determining the national income. The economic and social effects of the level, composition, and distribution of national income will be studied with reference to theories of economic welfare and to public policy.

EC 310 Economics of the Firm**3 (3-0) s**

Prerequisite: EC 201 or EC 205

An examination of the economic setting within which the business firm makes decisions, and an application of economic analysis to these decisions. Economics from the focal point of managerial decision-making.

EC 312 Accounting for Engineers**3 (3-0) f s**

A study of accounting principles from the management point of view; the analysis, recording and interpretation of business data; preparation of financial statements, their use and interpretation.

EC 315 Salesmanship**2 (2-0) f s**

An introduction to the principles and techniques of selling from the standpoint of the individual salesman. A course designed for the technical student anticipating entering the field of distribution.

EC 401, 402 Principles of Accounting**3 (2-2) f s**

Fundamental principles of accounting theory and practice; the analysis and recording of business transactions; explanation and interpretation of the structure, forms and use of financial statements.

EC 407 Business Law I**3 (3-0) f s**

Prerequisite: EC 201 or EC 205

A course dealing with elementary legal concepts, contracts, agency, negotiable instruments, sales of personal property, chattel mortgages, partnerships, corporations, suretyship and bailments, insurance.

EC 408 Business Law II**3 (3-0) f s**

Prerequisite: EC 407

Deals with real property, mortgages on urban and farm lands, landlord and tenant, requirements for valid deed, insurance law, wills, suretyship, and conditional sales.

EC 409 Introduction to Production Costs**3 (3-0) f s**

Prerequisite: EC 312

An introduction to accounting for manufacturing, fabrication and construction-type enterprises. The determination and allocation of costs of materials, labor, and overhead. Special emphasis is placed on managerial analysis, interpretation, and control of cost data.

EC 410 Industry Studies**3 (3-0) f**

Prerequisite: EC 201 or EC 205

An analysis of organization, market structure, and competitive behavior in specific industries, using the tools of the economist as a guide to pertinent factors and their significance. The course will be organized along the lines of intensive but broadly relevant case-studies.

EC 411 Marketing Methods**3 (3-0) f s**

Prerequisite: EC 201 or EC 205

Marketing institutions and their functions and agencies; retailing; market analysis; problems in marketing.

EC 413 Competition, Monopoly, and Public Policy**3 (3-0) s**

Prerequisite: EC 201 or EC 205. EC 301 recommended but not required

An analysis of the effect of modern industrial structure on competitive behavior and performance, in the light of contemporary price theory and the theory of workable competition. A critical evaluation of the legislative content, judicial interpretation, and economic effects of the anti-trust laws.

EC 414 Tax Accounting**3 (2-2) f s**

Prerequisite: EC 312 or EC 401

An analysis of the Federal tax laws relating to the individual and business. Determining and reporting income. Payroll taxes and methods of reporting them. Actual practice in the preparation of income tax returns.

EC 420 Corporation Finance**3 (3-0) f s**

Prerequisite: EC 201 or EC 205

Financial instruments and capital structure; procuring funds; managing working capital; managing corporate capitalization; financial institutions and their work.

EC 425 Industrial Management**3 (3-0) f**

Prerequisite: Junior standing

Principles and techniques of modern scientific management; relation of finance, marketing, industrial relations, accounting, and statistics to production planning and control; analysis of economic, political and social influences on production.

EC 426 Personnel Management**3 (3-0) s**

Prerequisite: Junior standing

The scientific management of manpower, from the viewpoint of the supervisor and the personnel specialists. A study of personnel policy and a review of the scientific techniques regarding the specific problems of employment, training, promotion, transfer, health and safety, employee service, and joint relations.

EC 431 Labor Problems**3 (3-0) f s**

Prerequisite: Junior standing

An economic approach to labor problems including wages, hours, working conditions, insecurity, substandard workers, minority groups, social security, and public policy relative to these problems.

EC 432 Industrial Relations**3 (3-0) f s**

Prerequisite: Junior standing

Collective bargaining. Analysis of basic labor law and its interpretation by the courts and governmental agencies. An examination of specific terms of labor contracts and their implications for labor and management. An examination of labor objectives and tactics and management objectives and tactics. Problems of operating under the labor contract.

EC 440 Economics of Growth**3 (3-0) s**

Prerequisite: EC 201 or EC 205

An examination of the institutional background required for national economic development. The conditions apparent for past growth of nations are compared with conditions obtained in presently retarded nations. Conclusions are drawn from this comparison to provide an introduction to the theoretical models of growth.

EC 442 Evolution of Economic Ideas**3 (3-0) f or s**

Prerequisite: EC 201 or EC 205

An analysis of the development of economic thought and method during the past two centuries. Economics considered as a cumulative body of knowledge in a context of emerging technology, changing institutions, pressing new problems, and the growth of science.

EC 446 Economic Forecasting**3 (3-0) f or s**

Prerequisite: EC 201 or EC 205. EC 302 recommended but not required

An examination of the basic principles and techniques of economic forecasting with strong emphasis upon the economic models upon which forecasting is based.

EC 448 International Economics**3 (3-0) f**

Prerequisite: EC 201 or EC 205

A study of international economics, including trade, investment, monetary relations, and certain aspects of economic development. Emphasis upon analytical and policy approaches, although some institutional material is included.

EC 450 Economics Decision Processes**3 (3-0) s**

Prerequisites: EC 201 or EC 205, MA 202 or MA 212

An analysis of processes for decision making by individuals and groups. Linear programming, probability, and game theory in the light of a general theory of decision.

EC 490 Senior Seminar in Economics**3 (3-0) f s**

Prerequisite: Consent of instructor

The terminal course in undergraduate study of economics. The student is assisted in summarizing his training, and in improving his capacity to recognize problems and to select logically consistent means of solving the problems. This is done on a small-group and individual basis.

Courses for Graduates and Advanced Undergraduates**EC 501 (AGC 501) Intermediate Economic Theory****3 (3-0) f**

Prerequisite: EC 301 or AGC 212 or equivalent

An intensive analysis of the determination of prices and of market behavior including demand, costs and production, pricing under competitive conditions, and pricing under monopoly and other imperfectly competitive conditions.

EC 502 Money, Income, and Employment**3 (3-0) s**

Prerequisite: EC 302 or EC 501 or equivalent

A study of the methods and concepts of national income analysis with particular reference to the role of monetary policy in maintaining full employment without inflation.

EC 510 (PS 510) Public Finance**3 (3-0) f s**

Prerequisite: EC 201 or EC 205

A survey of the theories and practices of governmental taxing, spending, and borrowing, including intergovernmental relationships and administrative practices and problems.

EC 525 Management Policy and Decision Making**3 (3-0) f**

Prerequisites: Nine hours in economics and related courses and consent of the instructor

A review and consideration of modern management processes used in making top-level policies and decisions. An evaluation of economic, social and institutional pressures, and of the economic and non-economic motivations, which impinge upon the individual and the organization. The problem of coordinating the objectives and the mechanics of management is examined.

EC 531 Management of Industrial Relations**3 (3-0) s**

Prerequisites: Senior standing and consent of instructor

A seminar course designed to round out the technical student's program. Includes a survey of the labor movement organization and structure of unions, labor law and public policy, the union contract and bargaining process, and current trends and tendencies in the field of collective bargaining.

EC 541 Origins of the United States' Economy**3 (3-0) f**

Prerequisites: Senior or Graduate standing; EC 205, HI 261, or HI 333, or equivalents

A seminar on growth and development of American economic institutions. Emphasis is placed on the relationship between the growth of the economy of the United States and theories of economic development.

EC 550 Mathematical Models in Economics**3 (3-0) f or s**

Prerequisites: EC 201 or EC 205, MA 202 or MA 212, EC 450 recommended but not required
 An introductory study of economic models emphasizing their formal properties. The theory of individual economic units is presented as a special case in the theory of inductive behavior. Mathematical discussions of the theory of the consumer, the theory of the firm, and welfare economics will show the relevance of such topics as constrained maxima and minima, set theory, partially and simply ordered systems, probability theory, and game theory to economics.

EC 552 Econometrics**3 (3-0) f or s**

Prerequisites: EC 201 or EC 205, MA 202 or MA 212, ST 361

An analysis of methods for economic inference. Multi-equation economic models: their specification, identification, and estimation.

EC 555 Linear Programming**3 (3-0) f s**

Prerequisites: EC 201 or EC 205, MA 202 or MA 212, MA 405

Recent developments in the theory of production, allocation, and organization. Optimal combination of integrated productive processes within the firm. Applications in the economics of industry and of agriculture.

EC 590, 591 Seminar in Special Economic Topics**3 (3-0) f s**

Prerequisite: Consent of instructor

Topics presented by a visiting professor or special lecturer. This course will be offered from time to time as distinguished visiting scholars are available.

Courses for Graduates Only**EC 601 Advanced Economic Theory****3 (3-0) f s**

Prerequisite: EC 501 or equivalent

A rigorous examination of contemporary microeconomic theory.

EC 602 (AGC 602) Monetary and Employment Theory**3 (3-0) f s**

Prerequisite: EC 502 or equivalent

The course consists of an analysis of the forces determining the level of income and employment; a review of some of the theories of economic fluctuations; and a critical examination of a selected macroeconomic system.

EC 603 History of Economic Thought**3 (3-0) f**

Prerequisites: EC 442 or EC 501, EC 502 or equivalent

A systematic analysis of the development and cumulation of economic thought, designed in part to provide a sharper focus and more adequate perspective for the understanding of contemporary economics.

EC 605 Research in Economics**Credits by arrangement**

Prerequisite: Graduate standing

Individual research in economics, under staff supervision and direction.

EC 640 Theory of Economic Growth**3 (3-0) f s**

Prerequisite: EC 440 or EC 502 or equivalent

Several theoretical models of economic growth are compared and analyzed. Contemporary developments in the theory of national economic growth are studied and evaluated for consistency with older theories.

EC 648 Theory of International Trade**3 (3-0) f s**

Prerequisite: EC 448 or EC 501 or equivalent

A consideration, on a seminar basis, of the specialized body of economic theory dealing with the international movement of goods, services, capital, and payments. Also, a theoretically-oriented consideration of policy.

EC 650 Economic Decision Theory**3 (3-0) f or s**

Prerequisites: EC 501 or equivalent, EC 550 or EC 555

Study of general theories of choice. Structure of decision problems; the role of information; formulation of objectives. Current research problems.

EC 655 Topics in Mathematical Economics**3 (3-0) f s**

Prerequisites: EC 501 or equivalent, EC 550 or EC 555

A seminar and research course devoted to recent literature and developments in mathematical economics.

EC 665 Economic Behavior of the Organization**3 (3-0) s**

Prerequisites: EC 501 or equivalent, consent of instructor

This seminar will apply methods and findings derived from the behavioral sciences to the economic behavior of the organization, particularly the business firm. Among the approaches which may be utilized are organization theory, information theory, reference group theory, and decision theory.

*** Education (General Courses)****Courses for Undergraduates****ED 308 Visual Aids****2 (1-2) s**

Methods and techniques of visual instruction; lettering; statistical illustration; chart, graph and poster-making; photography; projector operation, care and use. Staff

ED 344 Secondary Education**2 (1-2) f s**

An overview of secondary education, including development, problems, services, trends, teaching profession, role of school in the community, purposes and objectives. The development and status of secondary education in North Carolina is taken up. Mr. Shannon

ED 410 Driver Education**3 (2-2) s****Summer session only**

The principles of teaching basic driving skills, including the new concept of defensive driving, observance and interpretation of motor vehicle laws, adverse driving conditions, handling of accident situations and care of the car. Mr. Crawford

Courses for Graduates and Advanced Undergraduates**ED 501 Education of Exceptional Children****3 (2-2) f**

Discussion of principles and techniques of teaching the exceptional child with major interest on the mentally handicapped and slow learner.

Practice will be given in curriculum instruction for groups of children, individual techniques for dealing with retarded children in the average classroom. Opportunity for individual work with an exceptional child will be provided. Mr. Corter

ED 502 Analysis of Reading Abilities**3 (3-0) f**

Prerequisite: Six hours in Education or Psychology

A study of tests and techniques in determining specific abilities; a study of reading retardation and factors underlying reading difficulties. Mr. Rust

ED 503 Improvement of Reading Abilities**3 (3-0) s**

Prerequisite: Six hours in Education or Psychology

A study of methods used in developing specific reading skills or in overcoming certain reading difficulties; a study of methods used in developing pupil vocabularies and word analysis skills; a study of how to control vocabulary burden of reading material. Mr. Rust

* The departmental course descriptions in the School of Education follow the general courses.

ED 563 Effective Teaching**3 (3-0) f s**

Prerequisite: Twelve hours in Education

Analysis of the teaching-learning process; assumptions that underlie course approaches; identifying problems of importance; problem solution for effective learning; evaluation of teaching and learning; making specific plans for effective teaching.

Mr. Scarborough

Courses for Graduates Only**ED 614 Modern Principles and Practices in Secondary Education****2 (2-0) f s**

Prerequisite: Twelve hours in Education

Foundations of modern programs of secondary education; purposes, curriculum, organization, administration, and the place and importance of the high school in the community in relation to contemporary social force.

Graduate Staff

ED 615 Introduction to Educational Research**3 (3-0) f**

Prerequisite: Twelve hours in Education

An introductory course for students preparing for an advanced degree. The purposes are to assist the student in understanding the meaning and purpose of educational research and the research approach to problems; to develop students' ability to identify educational problems, and to plan and carry out research to solve these problems; to aid in the preparation of the research report. Special attention is given to tools and methods of research. Consideration is also given to the educator as a consumer of research.

Mr. Chansky

ED 665 Supervising Student Teaching**3 (3-0) f s**

Prerequisite: Twelve hours in Education

A study of the program of student teaching in teacher education. Special consideration will be given the role of the supervising teacher including the following areas: planning for effective student teaching, observation and orientation, school community study, analysis of situation, evaluating student teachers, and coordination with State College.

Graduate Staff

Agricultural Education**Courses for Undergraduates****ED 102 Objectives in Agricultural Education****1 (1-0) f**

Designed to help the student understand the purpose of Agricultural Education at State College. Also provides an opportunity for students to develop an understanding of purposes of vocational agriculture in the school community.

Staff

ED 201 Farming Programs and FFA**2 (2-0) s**

Provides an opportunity for students to get an understanding of the place of farming programs and FFA in vocational agriculture, as well as the role of the teacher in these programs.

Staff

ED 313 Teaching Rural People**2 (2-0) s**

The purpose of the course is to give the student an understanding of the basic principles involved in the teaching-learning process. The course will be built around problem experiences of farm people with principles of teaching and learning related to these experiences.

Staff

ED 411 Student Teaching in Agriculture**6 (3-12) f**

The first part of the semester (usually six weeks) will be on campus. The remainder of the semester will be spent in a high school department of vocational agriculture doing full-time student teaching. The student will get experience in all phases of the vocational agriculture program, including community study, adult education, home supervision. The student teacher will be supervised by the local teacher of agriculture and a member of the staff in Agricultural Education.

Staff

ED 412 Teaching Adults
2 (1-2) f

Principles of effective teaching applied to adult and young farmers. Experience in organizing and conducting groups for discussion of local problems.

Staff

ED 413 Teaching Materials
2 (1-2) f

Developing and using teaching materials for more effective instruction. Experience in this area with adult and high school classes.

Staff

ED 430 Senior Seminar
1 (1-0) f s

An analysis on the job of the teacher of vocational agriculture with particular emphasis upon current problems.

Courses for Graduates and Advanced Undergraduates

ED 554 Planning Programs in Agricultural Education
3 (3-0) f s

Prerequisite: ED 411

Consideration of the community as a unit for planning programs in agricultural education; objectives and evaluation of community programs; use of advisory groups; school and community relationships; organization of the department and use of facilities.

Messrs. Beam, Scarborough

ED 558 Special Problems in Teaching
Maximum 6 credits

Prerequisite: ED 411

Current problems in agricultural education. Opportunities for students to study particular problems under the guidance of the staff.

Graduate Staff

ED 568 Adult Education in Agriculture
3 (3-0) f s

Prerequisite: ED 411

This course is designed to meet the needs of teachers as leaders in adult education. More emphasis is being given to working with adults as part of the community program of vocational agriculture. This course will give the teacher an opportunity to study some of the basic problems and values in working with adult groups. Particular attention will be given to the problem of fitting the educational program for adults into the high school program of vocational agriculture, as well as to methods of teaching adults.

Messrs. Beam, Scarborough

Courses for Graduates Only

ED 616 Advanced Problems in Teaching
3 (3-0) f s

Prerequisite: ED 558

Group study in current and advanced problems in the teaching and administration of agricultural education; evaluation of procedures and consideration for improving.

Graduate Staff

ED 617 Philosophy of Agricultural Education
3 (3-0) f s

Prerequisite: ED 554

An examination of current educational philosophies and their relation to agricultural education. Principles and practices involved in the leadership of a teacher of agriculture and in making his work effective in a rural community. Study of leaders in the field.

Mr. Scarborough

ED 618 Seminar in Agricultural Education
Maximum 2 credits

A critical review of current problems, articles, and books of interest to students of agricultural education.

Graduate Staff

ED 621 Research in Agricultural Education
Maximum 6 credits

Individual direction in research on a specific problem of concern to the student. Generally, the student is preparing his thesis or research problem.

Graduate Staff

ED 664 Supervision in Agricultural Education**3 (3-0) f s**

Prerequisite: ED 563

Organization, administration, evaluation and possible improvement of present supervisory practice; theory, principles and techniques of effective supervision in agricultural education at different levels.

Industrial Arts

Courses for Undergraduates

IA 100 Introduction to Industrial Arts**1 (1-0) f**

A basic course designed to orient the student to college life and to introduce him to the philosophy, objectives, and scope of industrial arts as related to teacher education and industrial employment. A study of the problems and opportunities in the profession.

Staff

IA 103 Drafting I**3 (1-4) f**

Graphical communication encompassing sketching and instrument drawing. Theory and practice taught through the medium of freehand sketching involving oblique, isometric, perspective, exploded, assembly, sections, and orthographic projection type drawings. The last portion of the course is devoted to instrument drawing.

Mr. Troxler

IA 104 Drafting II**3 (1-4) s**

Prerequisite: IA 103

A study of house planning and construction. Investigation of the factors to be considered by the consumer in building or buying a house including location, building codes, FHA requirements, heating and ventilation, construction details, materials of construction. Laboratory work includes the design and drawing of a set of house plans.

Mr. Troxler

IA 107 Woods I**3 (1-4) f**

This course is an introduction to the basic problems of production with hand tools and machines. Group and individual problem solving in product design, selection of materials, organization of personnel, and laboratory facilities enable students to participate in a variety of experiences.

Mr. Briley

IA 108 Woods II**3 (1-4) s**

Prerequisite: IA 107

This is an advanced course which seeks to develop the students' knowledge and creative ability in solving problems using wood and related materials as the media. An opportunity will be provided to solve tooling problems as well as increase the individual's proficiency with hand and power tools.

Mr. Briley

IA 203 Technical Sketching**2 (1-2) s**

Required of students in Wild Life and Furniture Manufacturing

The application of drawing practices for the layman. Freehand sketching and instrument drawing, lettering, pictorial representation, production sketches, template drawing, exploded views, shades and shadows. Individual problems and selected graphic representation.

Mr. Troxler

IA 205 Industrial Arts Design**2 (1-2) f**

Prerequisites: IA 104, IA 107, IA 206

A study of design as related to industry and the industrial arts laboratory. Creative design and individual expression through problems involving the utilization of industrial materials.

Mr. Troxler

IA 206 Metal Processing I**3 (1-4) f**

Fundamentals of metalwork. Hand and machine tool applications. Emphasis on layout, orientation to the lathe, milling machine, shaper, surface grinder, and cut-off operations. Experiences in bench metal and welding. Study of mass production problems through group experience.

Mr. Moeller

IA 207 Metal Processing II**3 (1-4) s**

Prerequisite: IA 206

Fundamentals of foundry and sheet metal in conjunction with experiences of some precision using engine lathe, shaper, milling machine, and surface grinder. Analysis of metal problems in terms of principle applications and machine scheduling.

Mr. Moeller

IA 215 Sheet Metal**1 (0-2) f**

A course designed to provide practical experience in the use of tools, materials and processes involved in basic sheet metal fabrication.

Mr. Moeller

IA 304 General Shop Organization**2 (1-2) s**

Prerequisites: IA 104, IA 108, IA 207, IA 307

Application of principles of industrial processes to general shop organization and operation. Analysis of products. Methods, techniques of production of laboratory projects including a variety of materials suitable to varying educational levels.

Mr. Troxler

IA 306 Graphic Arts**3 (1-4) s**

This course is an introduction to the basic printing areas of letterpress, offset, photo-printing, silkscreen, and bookbinding. Students will be given the opportunity to develop materials for course outlines which may be used when teaching in the secondary schools.

Mr. Briley

IA 307 Basic Electricity**3 (1-4) f**

Prerequisites: PY 211, PY 212

The fundamentals of electricity as applied to resistive, inductive, capacitive and magnetic circuits. Emphasis are upon applications of electrical principles to light and power circuits, automobile circuits, motors, and controls.

Mr. Young

IA 308 Basic Electronics**3 (1-4) s**

Prerequisite: IA 307

The fundamentals of electronics as applied to power supply, amplifier and oscillator circuits. Applications of electronic principles as found in the super-hetrodyne radio are studied.

Mr. Young

IA 314 Recreational Arts and Crafts**2 (1-2) s**

Required of juniors in Industrial and Rural Recreation; elective for others

A course designed to give students interested in recreation work an understanding of and experiences in different types of arts and crafts. Emphasis will be given to a wide variety of crafts as adaptable to camps, city, industrial and institutional programs.

Mr. Briley

IA 315 General Ceramics**3 (1-4) f s**

This course is designed to give the student an opportunity to work with ceramic materials as a medium of expression and to get experience in the basic manufacturing processes of the ceramic industry. Emphasis will be given to a study of the sources of clay, designing, forming, decorating and firing of ceramic products.

Mr. Hostetler

IA 321 Metalwork Technology**2 (1-2) f s**

Prerequisites: IA 206, IA 207 or equivalent

Applications of principles of industrial techniques and processes to the development and construction of products and equipment utilizing a variety of industrial materials. Emphasis will be given to research, problem investigation related to design, function and production procedures.

Mr. Moeller

ED 422 Methods of Teaching Industrial Subjects**4(4-0) s**

Prerequisites: ED 344, PSY 304

A study of effective methods and techniques of teaching industrial subjects. Emphasis is given to class organization; student-teacher planning; methods of teaching manipulative skills and related information; lesson planning; shop safety; and evaluation. Teaching problems will be studied and analyzed following directed observations in the public schools.

Mr. Hostetler

ED 444 Student Teaching in Industrial Subjects**6 (2-15) f**

Prerequisite: ED 422

Students in the Industrial Arts and Industrial Education curricula will devote ten weeks during the fall semester to full time, off-campus student teaching in selected public schools throughout the State. They will be assigned to their teaching center in the preceding spring and will report to their supervising teachers when the public schools (to which they are assigned) open in the fall. During the remainder of the term, additional courses will be taken in concentrated form.

Staff

IA 465 Independent Study in Industrial Arts**6 f**

A course designed to develop problem-solving ability through research activities in industrial arts. Problems in industrial arts curriculum, method and content are carefully selected, designs or plans of action are prepared, and final papers are presented and defended before a faculty committee.

Staff

IA 480 Modern Industries**3 (3-0) f s**

Prerequisite: Senior standing

An overview of the function and organization of modern industry. Principles of work simplification, motion economy, processing, and scheduling are reviewed. The effects of technological change on labor, management, and consumer are considered. Attention will be focused on contributions of technology to specific industrial processes in machining, forming, fabricating in relationship to principles, types of equipment and usage areas.

Mr. Young

ED 482 Curriculum Problems in Industrial Arts**2 (1-2) f**

Prerequisites: PSY 304 or six credits in Education

Approximately one-third of the course is directed to developing a working philosophy of industrial arts and the major portion of the course is devoted to planning and organizing learning units in industrial arts.

Staff

ED 483 Instructional Aids and Devices**2 (1-2) f**

Prerequisites: PSY 304 or six credits in Education

Analysis of learning units and the preparation of instructional aids and devices.

Staff

IA 484 School Shop Planning and Equipment Selection**3 (3-0) s**

A course for advanced undergraduate students

The physical planning of school shops and laboratories; selection of tools and equipment. Whenever possible, actual or contemplated school buildings will be used for class work.

Mr. Hostetler

Courses for Graduates and Advanced Undergraduates**IA 510 Design for Industrial Arts Teachers****3 (1-4)**

Prerequisites: Six hours of drawing and IA 205 or equivalent

A study of new developments in the field of design with emphasis on the relationship of material and form in the selection and designing of industrial arts projects.

Graduate Staff

ED 552 Industrial Arts in the Elementary School**3 (Summer session)**

Prerequisites: Twelve credits in Education and consent of instructor

This course is organized to help elementary teachers and principals understand how tools and materials and industrial processes may be used to vitalize and supplement the elementary school children's experiences. Practical children's projects along with the building of classroom equipment.

Mr. Hostetler

IA 560 (ED 560) New Developments in Industrial Arts Education.**3 or 3**

Prerequisites: Twelve hours in Education and teaching experience

This course is a study of the new developments in industrial arts education. It is designed to assist teachers and administrators in developing new concepts and new content based on the changes in technology. They will be required to re-evaluate their programs in the light of these new concepts and the new content.

Mr. Hostetler

IA 570 Laboratory Problems in Industrial Arts**A maximum of 6 credits**

Prerequisites: Senior standing, permission of instructor

Courses based on individual problems and designed to give advanced majors in industrial arts education the opportunity to broaden or intensify their knowledge and abilities through investigation and research in the various fields of industrial arts, such as metals, plastics, or ceramics.

Graduate Staff

IA 575 Special Problems in Industrial Arts**A maximum of 6 credits**

Prerequisite: One term of student teaching or equivalent

The purpose of these courses is to broaden the subject matter experiences in the areas of industrial arts. Problems involving experimentation, investigation and research in one or more industrial arts areas will be required.

Graduate Staff

IA 595 (ED 595) Industrial Arts Workshop**3 (Summer session)**

Prerequisite: One or more years of teaching experience

A course for experienced teachers, administrators, and supervisors of industrial arts. The primary purpose will be to develop sound principles and practices for initiating, conducting and evaluating programs in this field. Enrollees will pool their knowledge and practical experiences and will do intensive research work on individual and group programs.

Graduate Staff

Courses for Graduates Only**ED 619 Seminar in Industrial Arts Education****1 (1-0) f s**

Prerequisite: Graduate standing

Presentation of current literature in the field of Industrial Arts Education; review and discussion of student papers and research problems.

Mr. Hostetler

ED 624 Research in Industrial Arts Education**Maximum 6 credits f s**

Prerequisites: Eighteen credits in Education, permission of instructor

The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and the best practice for interpreting and reporting data.

Mr. Hostetler

ED 630 Philosophy of Industrial Arts**2 (2-0) f s**

Prerequisite: Twelve hours in Education

Required of all graduate students in Industrial Arts Education. Current and historical developments in industrial arts; philosophical concepts, function, scope, criteria for the selection and evaluation of learning experiences, laboratory organization, student personnel programs, community relationships, teacher qualifications, and problems confronting the industrial arts profession.

Mr. Hostetler

ED 635 Administration and Supervision of Industrial Arts**2 (2-0) f s**

Prerequisite: Twelve hours in Education

A study of the problems and techniques of administration and supervision in the improvement of industrial arts in the public schools. Selection of teachers and their improvements in service and methods of evaluating industrial arts programs.

Mr. Hostetler

Industrial Education**Courses for Undergraduates****ED 100 Introduction to Industrial Education****2 (2-0) f**

The place of vocational education in a program of public education and the fundamental principles upon which this work is based.

Mr. Gehres

ED 305 Analysis of Technical Education Programs and Course Construction 3 (3-0) s
 Prerequisites: ED 100 and advanced undergraduate standing
 Principles and Techniques of selecting and analyzing suitable teaching activities and arranging such material into a functional instructional order. Instructional units prepared will be based on an analysis of a technical occupation or activity. A detailed course of study will be prepared.
 Mr. Gehres

ED 327 History and Philosophy of Industrial-Technical Education 3 (3-0) f
 Prerequisite: ED 100
 Historical study of trade and technical education movement. Place function and changing concepts of industrial and technical education in American education. Economic, sociological and psychological aspects.
 Mr. Hanson

ED 405 Industrial and Technical Education Shop and Laboratory Planning 3 (3-0) f
 Prerequisites: Senior standing and 6 hours of drawing or design
 Principles and techniques to assist teachers in planning and organizing shop and laboratory facilities. Problems of locating and equipping vocational schools; the planning and layout of shops and related technology laboratories and classrooms. Individual and group assignments on planning and layout of post secondary school buildings.
 Mr. Gehres

ED 422 Methods of Teaching Industrial Subjects 4 (4-0) s
 Prerequisites: ED 344, PSY 304
 A study of effective methods and techniques of teaching industrial subjects. Emphasis is given to class organization; student-teacher planning; methods of teaching manipulative skills and related information; lesson planning; shop safety; and evaluation. Teaching problems will be studied and analyzed following directed observation in the public schools.
 Staff

ED 440 Vocational Education 2 (2-0) f
 Prerequisites: ED 344, PSY 304
 A comprehensive study of the types of vocational education of less than college grade, provided for through Federal legislation; an evaluation of the effectiveness of the program; and a detailed study of the North Carolina Plan.
 Staff

ED 444 Student Teaching In Industrial Subjects 6 (2-15) f
 Prerequisite: ED 422
 Student in the Industrial Arts and Industrial Education curricula will devote ten weeks during the fall semester to full time, off-campus student teaching in selected public schools throughout the State. They will be assigned to their teaching center in the preceding spring and will report to their supervising teachers when the public schools (to which they are assigned) open in the fall. During the remainder of the term, additional courses will be taken in concentrated form.
 Staff

ED 483 Instructional Aids and Devices 2 (1-2) f
 (See page 278 for description)

Courses for Graduates and Advanced Undergraduates

ED 516 Community Occupational Surveys 2 (2-0) s
 Prerequisites: Six credits in Education and consent of instructor.
 Methods in organizing and conducting local surveys and evaluation of findings in planning a program of vocational education.
 Graduate Staff

ED 521 Organization of Related Study Materials 3 (3-0) f s
 Prerequisite: ED 422
 The principles of selecting and organizing both technical and general related instructional material for trade extension and industrial cooperative training classes.
 Graduate Staff

ED 525 Trade Analysis and Course Construction**3 (3-0) f**

Prerequisites: ED 344, PSY 304

Principles and practices in analyzing occupations for the purpose of determining teaching content. Practice in the principles underlying industrial course organization based on occupational analysis covering instruction in skills and technology and including course outlines, job sequences, the development of industrial materials and instructional schedules.

Graduate Staff

ED 527 Philosophy of Industrial and Technical Education**3 (3-0) f s**

Prerequisites: ED 422, 440

A presentation of the historical development of industrial and technical education; the types of programs, philosophy, trends and problems of vocational-industrial education; study of Federal and State legislation pertaining to industrial education, practical nurse education and technical education.

Mr. Hanson

ED 528 Principles and Practices in Industrial Cooperative Training**3 (3-0) f s**

Prerequisites: ED 422, 440

A study of the developments, the objectives, and principles of industrial cooperative training. The organization, promotion and management of programs in this area of vocational education.

Graduate Staff

ED 529 Curriculum Materials Development**3 (3-0) s**

Prerequisite: ED 525

Selection and organization of curricula used in vocational-industrial and technical education; development of curricula and instructional materials.

Mr. Hanson

ED 591 Special Problems in Industrial Education**Maximum 6**

Prerequisites: Six hours of graduate credit and permission of department head

Directed study to provide individualized study and analysis in specialized areas of trade, industrial or technical subjects.

Graduate Staff

Courses for Graduates Only**ED 609 Planning and Organizing Technical Education Programs****3 (3-0) f**

Prerequisites: PSY 304, ED 344, 420, 440, and 516

Principles of planning and organizing technical education programs sponsored by federal vocational acts. Professional course for coordinators and directors, with emphasis on the organization of post high school technical education level. Survey of needs, building plans, equipping and maintenance of buildings, financial structure, and personnel organization and management.

Mr. Hanson

ED 610 Administration and Supervision of Vocational Education**3 (3-0) s**

Prerequisites: PSY 304, ED 344, 420, 440 or equivalent

Administrative and supervisory problems of vocational education; practices and policies of Federal and State offices; organization and administration of city and consolidated systems.

Mr. Hanson

ED 626 Seminar in Industrial Education**Maximum 2**

Prerequisite: Graduate standing or permission of the instructor

Reviews and reports on topics of special interest to graduate students in Industrial Education. The course will be offered from time to time in accordance with the availability of distinguished professors.

Mr. Hanson

ED 627 Research in Industrial Education**Maximum 6**

Prerequisites: Eighteen credits in Education and permission of instructor

The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and best practice for interpreting and reporting data.

Graduate Staff

Mathematics and Science Education

Courses for Undergraduates

ED 203 Introduction to Teaching Mathematics and Science 2 (2-0) s
A course designed to aid prospective teachers in becoming familiar with the scope and purposes of secondary education, the qualification and responsibilities of teachers, the relation of the school to the community, and current problems of secondary school teachers.

Mr. Speece

ED 470 Methods of Teaching Mathematics 3 (3-0) f
A study of the purposes, methods, materials, curricula and evaluation practices appropriate for teachers of mathematics at the secondary level.

Mr. Speece

ED 471 Student Teaching in Mathematics 6 (2-15) f s
This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching mathematics. Each student during the senior year will spend 10 weeks off-campus in a selected center. In addition to acquiring the necessary competencies for teaching mathematics, the student teachers will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

Mr. Speece

ED 472 Developing and Selecting Teaching Materials in Mathematics 2 (2-0) f s
Developing and selecting teaching materials in keeping with the new and changing concepts of the content and emphasis in high school mathematics is essential for mathematics teachers. The course will follow the class discussion and demonstration pattern. Students will study the latest instructional materials and discover or devise materials and aids for increasing the effectiveness of the content and instruction in high school mathematics.

Mr. Speece

ED 475 Methods of Teaching Science 3 (3-0) f s
A study of the purposes, methods, materials, curricula and evaluation practices appropriate for teachers of physical and natural science at the secondary level.

Mr. Shannon

ED 476 Student Teaching in Science 6 (2-15) f s
This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching science. Each student during the senior year will spend 10 weeks off-campus in a selected center. In addition to acquiring the necessary competencies for teaching science, the student teacher will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

Mr. Shannon

ED 477 Developing and Selecting Teaching Materials in Science 2 (2-0) f s
Developing and selecting teaching materials in keeping with the new and changing concepts of the content and emphasis in high school science, particularly the experimental and laboratory approach to science teaching. Students will study the latest effectiveness of the content and instruction in high school science courses.

Mr. Shannon

Occupational Information and Guidance

Course for Undergraduates

ED 420 Principles of Guidance 2 (2-0) f s
This is a course designed to provide basic principles of guidance for teachers, teacher-counselors, administrators, and others in the school, as well as workers in other areas such as the community agency, business, industry, group work, and the like.

Among the topics covered are need for guidance, bases of guidance services; programs of studying the individual; counseling for educational, vocational, social, and personal problems; group procedures in guidance. Emphasis is on the practical application of guidance principles and procedures.

Mr. Morehead

Courses for Graduates and Advanced Undergraduates

ED 520 Personnel and Guidance Services

3 (3-0)

Prerequisites: Graduate standing and 6 hours of Education or Psychology

An introduction to the philosophies, theories, principles and practices of guidance and personnel services.

Mr. Morehead

ED 524 Occupational Information

3 (0-3)

Prerequisites: Six hours of Education or Psychology, ED 420 or equivalent

This course is designed to prepare teachers, counselors, business and industrial personnel workers, placement workers, and others to collect, evaluate, and use occupational and educational information. In addition to the study of the usual sources and types of published occupational information, attention will be given to collection of occupational information locally, preparation of the occupational monograph, analysis of job requirements and worker characteristics, occupational trends and factors affecting trends, occupational and industrial structure and classification, and the like. Imparting occupational information to groups and individuals by techniques such as the following are considered: the occupations unit in social studies and other courses, the occupations course, home-room activities, introducing occupational information informally in subject matter courses, the resource file, vocational counseling.

Mr. Morehead

ED 530 Group Guidance

3 (3-0)

Prerequisites: Six hours of Education or Psychology, ED 420 or equivalent

This course is designed to help teachers, counselors, administrators, and others who work with groups or who are responsible for group guidance activities, to understand the theory and principles of effective group work, to develop skill in using specific guidance techniques, and to plan and organize group activities in the secondary school and other institutions. The relationship of group activities to counseling and other aspects of guidance services is considered. Methods of evaluating and improving group guidance activities are taken up.

Mr. Morehead

ED 533 Organization and Administration of Guidance Services

3 (3-0)

Prerequisites: Graduate standing, ED 420 or equivalent

This course is designed for school guidance workers and those preparing for this field. Basic principles and current practices employed in developing, organizing, administering, and supervising guidance services in the elementary and secondary school will be studied. Inter-relationship of guidance services with instruction, administrative relationships, utilization of school staff, and evaluation of guidance services will be considered.

Mr. Morehead

ED 590 Individual Problems in Guidance

A maximum of 6 credits

Prerequisite: Six hours graduate work in department or equivalent

Intended for individual or group studies of one or more of the major problems in guidance and personnel work. Problems will be selected to meet the interests of individuals. The workshop procedure will be used whereby special projects and reports will be developed by individuals and by groups.

Messrs. Anderson, Morehead

Courses for Graduates Only

ED 631 Educational and Vocational Guidance

3 (3-0) f

Prerequisites: Nine hours from following fields—Economics, Education, Psychology or Sociology

This course aims to provide training for teachers who are part-time or full-time counselors, employment interviewers, social workers and personnel workers, who are aiding individuals with vocational adjustment problems. The course will cover the functions performed in vocational and educational guidance such as assembling and imparting occupational information, counseling regarding vocational and educational plans, the use of aptitude tests, placement in jobs and follow-up, and procedures in setting up services of vocational and educational guidance in schools, employment offices, and social service agencies.

Mr. Anderson

ED 633 Techniques in Guidance and Personnel**3 (3-0) s**

Prerequisites: Nine hours from following fields—Economics, Education, Psychology or Sociology
 This course is designed to aid personnel workers in secondary schools, colleges, employment offices, and social agencies to develop an understanding and to develop skill in using various guidance and personnel techniques. Some of the techniques to be studied intensively are: anecdotal reports, rating scales, observation, records and reports, sociograms, interviewing, counseling and case study procedures. Students will become acquainted with these techniques through lectures, demonstrations, and the study of case histories. Attention will be given to both diagnosis and treatment.

Mr. Anderson

ED 641 Field Work in Occupational Information and Guidance**2 to 6 f s**

Prerequisite: Advanced graduate standing

A practicum course in which the student undertakes field work in secondary schools, colleges, social service agencies, employment office, and industrial establishments which carry on guidance and personnel work. The student may observe and participate in some personnel service and may study the organization and administration of the programs.

Messrs. Anderson, Morehead

ED 651 Research in Occupational Information and Guidance**Maximum 6 credits f s**

Prerequisite: Advanced graduate standing

Qualified students will conduct investigations and research in guidance and personnel. Published reports and techniques in investigation will be analyzed and evaluated.

Messrs. Anderson, Morehead

Psychology

Courses for Undergraduates

PSY 200 Introduction to Psychology**3 (3-0) f s**

A study of the general characteristics of human behavior, including motivation, learning, development, emotion, thinking, perception and sensation, and measurement. The objectives are development of the ability to communicate in oral and written form accurately and scientifically about behavior; development of an understanding of a capacity to use scientific ideas and processes as they apply to behavior; an understanding of the behavior of organisms.

Staff

PSY 201 Experimental Analysis of Behavior**3 (2-3) f s**

Prerequisite: PSY 200

The objectives of this course are to promote the learning of facts and principles derived from an experimental analysis of behavior; to promote familiarity with laboratory operations used in studying behavior; to foster capability to write and speak effectively about behavior. Topics covered include: acquisition, extinction, spontaneous recovery, generalization, differentiation, secondary reinforcement, chaining.

Messrs. Barkley, Cook, Newman

PSY 302 Psychology of Personality and Adjustment**3 (3-0) f s**

Prerequisite: PSY 200

A study of the factors involved in the development of the normal personality, emphasizing the principal factors controlling human behavior and their relationship to adjustment mechanisms.

Mr. Corter

PSY 304 Educational Psychology**3 (3-0) f s**

Prerequisite: PSY 200

A study of learning and evaluation in the context of educational practice.

Mr. Johnson

PSY 337 Industrial Psychology I**3 (3-0) f s**

Prerequisite: PSY 200

The application of psychological principles to the problems of industry and business; work methods, fatigue, motivation and morale, job analysis, performance measurement.

Mr. Drewes

Courses for Advanced Undergraduates

PSY 438 Industrial Psychology II

3 (3-0) s

Prerequisites: PSY 200, PSY 337

The application of psychological principles to the problems of modern industry; with particular emphasis on human relations and supervision.

Mr. Miller

PSY 441 Human Factors in Equipment Design

3 (3-0) s

Prerequisite: PSY 200, PSY 337 recommended

Human factors in the design of machines and other equipment. Items of equipment are understood as extensions of man's capacity to sense, comprehend, and control his environment. Includes problems in the psychology of information, communication, control, and invention.

Messrs. Cook, Drewes

PSY 464 Visual Perception for Designers

3 (3-0) f

Prerequisite: PSY 200

The nature of the seeing process and its relation to architecture, industrial arts, and to the industrial engineering, and textile design fields. Topics include the basis of sight, perception of color and form, vision and illumination, psychological factors in visual design, and a unit of training planned to improve the student's ability to perceive visual form.

Mr. Cook

PSY 475 Child Psychology

3 (3-0) s

Prerequisite: PSY 200 or PSY 304

The development of the individual child of the elementary school age will be the inclusive object of study in this course. Emphasis will be placed upon the intellectual, social, emotional, and personality development of the child. Physical growth will be emphasized as necessary to an understanding of the psychological development of the pupil.

Mr. Barkley

PSY 476 Psychology of Adolescence

2 (2-0) f s

Prerequisite: PSY 200

Nature and source of the problems of adolescents in western culture; emotional, social, intellectual and personality development of adolescents.

Messrs. Barkley, Johnson

PSY 490 Social Psychology

3 (3-0) s

Prerequisite: PSY 200

The individual in relation to social factors. Socialization, personality development, communication, social conflict and social change.

Messrs. Barkley, Miller

Courses for Advanced Undergraduates and Graduates

PSY 501 Experimental Psychology

3 (2-3) f s

Prerequisite: Nine hours of Psychology

Experimental study of problems in general and theoretical psychology with particular emphasis on sensation and perception. Particular attention is paid to problem formulation, experimental design and experimental method. Effective written and oral performance by the student is a basic objective.

Messrs. Barkley, Cook, Newman

PSY 502 Physiological Psychology

3 (3-0) f

Prerequisites: Twelve hours of Psychology, including PSY 200, PSY 201

A survey of the physiological bases of behavior including the study of coordination, sensory processes, brain functions, emotions, and motivation.

Mr. Bernard

PSY 504 Advanced Educational Psychology

3 (3-0) s

Prerequisite: Six hours in Psychology

A critical appraisal of current psychological findings that are relevant to educational practice and theory.

Mr. Johnson

PSY 511 Advanced Social Psychology**3 (3-0) f**

Prerequisites: PSY 200 and 514, additional hours in Psychology

A study of social relationships and their psychological bases; emphasis on those aspects of behavior determined by personal interactions; work will involve analysis of representative research studies, and individual projects.

Mr. Miller

PSY 514 Psychological Research Design**1 (1-0) f**

Prerequisite: Graduate standing in Psychology

The objectives of this course are to acquaint students with current developments in theory and research in several areas of psychological interest; to foster capability to derive experimentally testable hypotheses, and experimental tests of these hypotheses; to write and speak effectively about theory and experimentation in psychology.

Graduate Staff

PSY 530 Abnormal Psychology**3 (3-0) s**

Prerequisites: PSY 200, PSY 302

A study of the causes, symptomatic behavior, and treatment of the major personality disturbances, emphasis also placed on preventive mental hygiene methods.

Mr. Corter

PSY 535 Tests and Measurements**3 (3-0) f s**

Prerequisite: Six hours in Psychology

A study of standard tests with an emphasis on the efficient selection and use of such instruments.

Mr. Johnson

PSY 550 Mental Hygiene in Teaching**3 (3-0) f**

Prerequisite: Six hours in Psychology

A survey of mental hygiene principles applicable to teachers and pupils; practical problems in prevention and treatment of psychological problems in schools; case studies and research.

Messrs. Barkley, Corter

PSY 565 Industrial Management Psychology**3 (3-0) f s**

Prerequisite: Nine hours of Psychology

A study of the application of behavioral science, particularly psychology and social psychology to organizational and management problems.

Mr. Miller

PSY 570 Theories of Personality**3 (3-0) f**

Prerequisite: Nine hours of Psychology

A survey of modern theories of personality with some emphasis on intelligence and cognitive factors.

Mr. Corter

PSY 571 Individual Intelligence Measurement**3 (3-0) s**

Prerequisite: PSY 570

A practicum in individual intelligence testing with emphasis on the Wechsler-Bellevue, Stanford-Binet, report writing, and case studies.

Mr. Corter

PSY 576 Developmental Psychology**3 (3-0) s**

Prerequisite: Nine hours in Psychology, including PSY 476 or PSY 475

A survey of the role of growth and development in human behavior; particularly of the childhood and adolescent periods. This course will pay particular attention to basic principles and theories in the area of developmental psychology.

Mr. Johnson

PSY 578 Individual Differences**3 (3-0) f**

Prerequisite: Six hours in Psychology

Nature, extent, and practical implications of individual differences and individual variation.

Mr. Barkley

Courses for Graduates Only

PSY 604 Advanced Experimental Psychology: Learning and Motivation 3 (2-3) f or s
Prerequisite: PSY 501 or equivalent

The objectives of this course are to promote familiarity with the kinds of research currently being conducted within the areas of "learning and motivation;" to foster effective performance in writing, speaking and reading in this area, in the derivation of hypotheses capable of experimental test and in the design of experiments to test them.

Messrs. Cook, Newman

PSY 606 Behavior Theory 3 (3-0) s

Prerequisites: PSY 200, a course in learning, Experimental Psychology and Statistics

A study of the most fundamental considerations in behavior theory. Such topics as criteria of scientific meaningfulness, the nature of scientific explanation, the application of formal, logical techniques to theory analysis, the nature of probability, operationism, intervening variables, etc., will be covered. The aim of the course is to develop skill in handling theoretical concepts, the ability to analyze and evaluate theories, to deduce hypotheses from them, and to devise means of testing them.

Mr. Cook

PSY 607 Advanced Industrial Psychology I 3 (3-0) f

Prerequisites: Nine hours of Psychology and Statistics or concurrent with Statistics

Application of scientific methods to the measurement and understanding of industrial behavior.

Messrs. Drewes, Miller

PSY 608 Advanced Industrial Psychology II 3 (3-0) s

Prerequisite: PSY 607

Application of scientific methods to the measurement and understanding of industrial behavior.

Messrs. Drewes, Miller

PSY 609 Psychological Clinic Practicum Maximum 9 hours f s

Prerequisite: Eight hours in Psychology

Clinical participation in interviewing, counseling, psychotherapy and administration of psychological tests. Practicum to be concerned with adults and children.

Mr. Corter

PSY 610 Theories of Learning 3 (3-0) s

Prerequisite: PSY 604

The objectives of this course are to promote learning of the theories currently used to explain how learning and forgetting occur so that testable consequences of these theories can be derived and so that the theories and their testable consequences are capably written and spoken about.

Messrs. Johnson, Newman

PSY 612 Seminar in Industrial Psychology 3 (3-0) f s

Scientific articles, analysis of experimental designs in industrial psychology, and study of special problems of interest to graduate students in Industrial Psychology.

Graduate Staff

PSY 613 Research in Psychology Credits by arrangement

Individual or group research problems; a maximum of six credits is allowed toward the master's degree.

Graduate Staff

PSY 635 Psychological Measurement 3 (3-0) s

Prerequisites: ST 511 or equivalent and 12 hours of Psychology

Theory of psychological measurement. Statistical problems and techniques in test construction.

Mr. Drewes

PSY 672 Personality Measurement 3 (2-3) f s

Prerequisites: PSY 570, PSY 571

Theory and practicum in individual personality testing of children and adults with emphasis on projective techniques, other personality measures, report writing and case studies.

Mr. Corter

Recreation and Park Administration

Courses for Undergraduates

RPA 152 Introduction to Recreation
3 (3-0) f s

This course is designed to provide instruction in the areas of history and foundations of recreation including objectives, economic and social aspects, definition and importance; status of organized recreation in our modern society; certain applied principles of recreation; recreation leadership; activities and program planning; and tournament planning and administration. The course is of lecture-laboratory technique.

Mr. Hines

RPA 153 The Aquatic Program
2 (0-4) f s

Prerequisite: PE (swimming)

This is a laboratory course including the history of the techniques and methods of teaching swimming, modern methods of teaching diving, officiating, games, pageants, the use of small craft, life-saving techniques, principles of water safety, the organization and administration of water safety programs and the maintenance of the swimming pool and water front.

Mr. Stott

RPA 201 Playground Leadership
3 (2-3) f s

Prerequisite: RPA 152

Emphasis is placed on the principles, techniques, and activities necessary for effective playground leadership. Special emphasis is given through the following practical laboratory experiences: activities of low organization; contests; relays; aquatic activities; table games; and elementary arts and crafts.

Mr. Miller

RPA 207 History and Principles of Park Administration
2 (2-0) f s

Prerequisite: RPA 152

This course includes the study of the history, present status and the basic principles of operation of parks and park systems in America.

Mr. Miller

RPA 253 Principles of Physical Education
3 (3-0) f s

This course is designed to give the student a professional orientation in physical education and the place of physical education activities in allied and related fields. It introduces the student to the program of physical education—its interpretation in the light of present day needs, its sociological basis, aims and objectives and a sampling of program activities.

Mr. Brantley

RPA 255 Social Recreation
4 (2-4) f s

Prerequisite: Sophomore status

This course is designed to satisfy the needs of the recreator for conducting social play. Stress is placed on the acquiring of technical knowledge of social activities including rhythmic and square dancing, and the conducting of specific types of activities.

Mr. Crawford

RPA 301 Organization and Administration of Physical Education
3 (3-0) f s

Prerequisite: RPA 253

This course is designed to prepare students to meet the problems of organization and administration of physical education. It presents the solution to many of the problems facing the administrator and teacher in organizing and administering a physical education program with analogies of these problems to other areas in the field of recreation.

Mr. Brantley

RPA 315 Prevention and Care of Athletic Injuries
2 (2-0) f s

Prerequisite: ZO 213

This course is designed for students in residence and for individuals in-service. Directors of community centers, boys clubs, coaches of athletic teams, athletic directors and others are confronted constantly with the prevention and the care of athletic injuries. The course is of lecture-laboratory technique.

Mr. Crawford

RPA 333 First Aid and Safety**2 (1-2) f s**

This course stresses first aid and safety education in relation to the home, school and community. It strongly emphasizes safety principles as applied to activities of the gymnasium, playgrounds and athletic fields. Laboratory will provide practice in first aid skill.

Mr. Crawford

RPA 335 Camping and Outdoor Education**3 (2-2) f s**

Prerequisite: Junior status

This course covers the history of school camping and outdoor education. The scope of this course is to provide the student with a background of principles, organization and administrative techniques, and camping skills to be utilized in a school operated program.

Mr. Stott

RPA 353 Camp Organization and Leadership**3 (2-2) f s**

Prerequisites: RPA 153 and RPA 201

This course surveys the development of organized camping and the educational, health, and recreational objectives of camping. Program planning and leadership training in community, private, agency and school camping is emphasized. Laboratory will provide practice in campcraft skills.

Mr. Stott

RPA 354 Personal and Community Hygiene**3 (3-0) f s**

Prerequisite: Junior status

This course presents the essential present-day knowledge of personal and community health. Emphasis is placed upon health problems, disease prevention, communicable diseases and their control, public health administration, school and industrial hygiene and various other health problems confronting the individual and community. The course presents valuable and interesting health information to college men and women in order that they might live more intelligently in terms of newer health concepts and also be better prepared to assume their responsibilities as citizens of their respective communities.

Mr. Brantley

RPA 355 Sports in Recreation**4 (2-4) f s**

Prerequisite: RPA 152

This course provides for group instruction and laboratory experience in a variety of sports applicable to a recreation setting. Emphasis is given to problems involved in the organization and administration of a community sports program. Officiating techniques applicable to recreation sports are utilized.

Mr. Brantley

RPA 360 Individual Corrective and Adapted Activities**3 (3-0) f s**

Prerequisites: ZO 212, 213

This course provides students with: methods to motivate the atypical individual to not only his physical condition but also his outlook on life to utilize modern educational principles and sport activities which will satisfy the handicapped individual's needs, interest, and capacity.

Mr. Crawford

RPA 365 Methods and Materials in Health and Physical Education**3 (3-0) f s**

Prerequisite: RPA 301

This course presents to the prospective physical activity instructor methods and materials of instruction; also the course provides study in the areas of healthful school living, health service, and health instruction.

Mr. Brantley

Courses for Advanced Undergraduates**RPA 405 Principles and Practices of Recreation****3 (3-0) f s**

Prerequisite: RPA 415

A study of existing practices of recreation, their operation, methods of finance, scope, and problems are emphasized. The inter-relationship and inter-dependence of all forms of organized recreation are stressed.

Mr. Hines

RPA 415 Park Maintenance and Operation**3 (3-0) f s**

Prerequisite: RPA 152

This course deals with methods of operation of various park facilities for public use; interpretive and public use programs; information and education; park personnel administration; protection and law enforcement; preventive maintenance; job planning and scheduling; modern maintenance techniques and maintenance materials.

Mr. Stott

RPA 451 Facility and Site Planning**3 (0-6) f s**

Prerequisite: RPA 415

This course includes the history of park and recreation facility development and trends in recreation facility planning. Emphasis is placed upon the planning principles involved in the design and layout of recreation areas and recreation buildings. Field trips will enable the student to see the various types of recreation facilities.

Mr. Stott

RPA 452 Recreation Administration**3 (3-0) f s**

Prerequisite: RPA 470

This course deals with the internal organization of a recreation department; financing; accounting and financial procedure; budget making and control; records, reports and filing; program planning and control; personnel policies and organization; and public relations.

Mr. Hines

RPA 470 Supervised Practice**6 (9 weeks) Summer**

Prerequisites: RPA 353, 355

This course is intended to provide the prospective recreation director with an opportunity to acquire experience in the skills and techniques involved in the organization and administration of recreation activities in an established program. Each student prior to his senior year will spend 9 weeks off-campus in a selected location. (A minimum of 225 contact hours are required) The student will have the opportunity to observe the activities and practices of the recreation executive, to organize and conduct activities under supervision, to observe activities and practices of experienced recreation activity leaders and to observe the maintenance and operation of facilities.

Mr. Miller

RPA 471 Organizing the Recreation Program**2 (2-0) f s**

Prerequisite: RPA 470

This course includes the types of recreation opportunities to be made available to individuals, groups or communities to be served and the methods of providing these opportunities. Activities to be considered are classified as arts and crafts; dance; drama; games, sports and athletics; hobbies; music; outdoor recreation; reading, writing and speaking; social recreation; special events and voluntary service. The lecture-discussion technique is used. Outside studies and assigned readings with reports are required.

Mr. Miller

RPA 472 Observation and Field Experience**2 (0-6) f s**

Prerequisite: RPA 470

This course is designed to provide the student with the opportunity to observe, appraise and evaluate: the operation of program activities; teaching methods; administrative, supervisory and organizational techniques; procedures and conduct of advisory and commission meetings; professional conferences and society meetings. Students will be expected to complete this entire gamut. By use of field experience the student will be expected to prepare written reports of observations. Only those experiences approved by the recreation faculty shall be accepted.

Mr. Miller

Courses for Graduates and Advanced Undergraduates

RPA 501 Special Problems in Recreation**3 (2-2) f s**

Prerequisite: RPA 470

A survey of specific problems in recreation. Aims to develop critical analysis. Forms a basis for the organization of research projects, for the compilation and organization of material in a functional relationship and for the foundation of policies. Follows the seminar procedure.

Mr. Hines

Electrical Engineering

Courses for Undergraduates

- EE 201 Elementary Circuits and Fields** 4 (2-5) f s
 Corequisite: MA 201
 Required of sophomores in Electrical Engineering
 Fundamental laws of electric circuits. Introduction to transient and steady-state analysis. Problem drill and laboratory exercises. Staff
- EE 202 Elementary Circuits and Fields** 4 (2-5) s
 Prerequisites: EE 201, MA 201
 Required of sophomores in Electrical Engineering
 A continuation of EE 201. Introduction to magnetic circuits, magnetic and electric fields, energy conversion and two-port active elements. Problem drill and laboratory exercises. Staff
- EE 301, 302 Intermediate Circuits and Fields** 4 (2-5) f
 3 (2-2) s
 Prerequisites: EE 202, PY 202, and MA 202
 Required of juniors in Electrical Engineering
 An intermediate treatment of lumped-constant alternating-current circuits in the steady state. Single- and three-phase circuits. Discussion of electric and magnetic fields, distributed constants, and traveling waves. The theory of transmission lines at power and audio frequencies. Filters and impedance matching. One three-hour laboratory per week is included in the first semester. Staff
- EE 305 Electrical Machinery** 4 (2-5) f
 Prerequisite: EE 202
 Required of juniors in Electrical Engineering
 A classroom and laboratory study of the principles, performance, and characteristics of direct-current and alternating-current machinery. Staff
- EE 306 Electrical Machinery** 4 (3-3) s
 Prerequisites: EE 301 and EE 305
 A continuation of EE 305 into more advanced phases of the theory of alternating- and direct-current machinery. Staff
- EE 310 Illumination** 3 (2-3) s
 Prerequisite: EE 301 or EE 320 or EE 331
 A study of the principles involved in the production and utilization of light from artificial sources; of the requirements for good lighting; and of the design of lighting installations for schools and industry. Mr. Winkler
- EE 314 Electronics** 4 (2-5)
 Prerequisite: EE 301
 A study of active vacuum, gas, and solid state devices as elements of electric circuits. Analysis is made of linear and non-linear representation and operation. Mr. Manning
- EE 320 Elements of Electrical Engineering** 4 (3-3) f s
 Prerequisites: MA 202 and PY 202
 Required of seniors in MEA, AGE, MIC, CHE, MIG, CE
 Principles, characteristics, and operation of electric equipment and systems. Theory and problems in applied electricity, motor characteristics, industrial applications, and electronics. Mr. Smiley
- EE 331, 332 Principles of Electrical Engineering** 4 (3-3) f s
 Prerequisites: MA 202 and PY 202
 Required of seniors in Industrial Engineering and Mechanical Engineering
 Basic concepts, electrical power generation and utilization, circuit elements, single and poly-phase a.c. circuits, transformers, rotating electrical machines. Fundamentals of electronics and control circuits. Staff

EE 350 Electric Power Utilization in Manufacturing Processes**3 (2-3) s**

Prerequisite: PY 212

Introduction to basic electrical theory; d-c and a-c circuits and measurements; study of d-c motors and of single-phase and polyphase utilization equipment; basic control systems and brief introduction to principles of automatic control. Application examples will be drawn from the technologies of particular interest to the students in the class.

Mr. Smiley

Courses for Advanced Undergraduates**EE 401 Advanced Circuits and Fields A****3 (2-2) f**

Prerequisites: EE 302, MA 301

Required of seniors in Electrical Engineering

Transient analysis of electric circuits by the Laplace transform method, the study of transient and sinusoidal steady-state response in terms of poles and zeros of network functions.

Staff

EE 402 Advanced Circuits and Fields B**3 (2-2) s**

Prerequisites: EE 302 and MA 301

Required of seniors in Electrical Engineering

A study of classical electric and magnetic field theory and its application to the problems of electrical engineering. Consideration of electrostatics, magnetostatics, radiation, and guided waves.

Staff

EE 411 Electrical Engineering Senior Seminar**1 (0-2) f**

Prerequisite: Senior standing

Required of seniors in Electrical Engineering

Weekly meetings for the delivery and discussion of student papers on topics of current interest in Electrical Engineering.

Staff

EE 430 Essentials of Electrical Engineering**4 (3-3)**

Prerequisite: EE 301 or EE 332

Not available to undergraduates in Electrical Engineering

Essential theory of electric circuits, including electron tubes, solid state devices, transformers and rotating machines as needed to supply the electrical background for instrumentation and control theory. Intended primarily for graduate students who do not have an electrical engineering undergraduate degree.

Staff

EE 431 Electronic Engineering**3 (2-3) f**

Prerequisites: EE 302, EE 314

Departmental elective for seniors

Comprehensive coverage of circuits and equipment using electronic devices; variable frequency effects; amplifiers, oscillators, modulators, detectors, wave-shaping circuits, generators of non-linear waveforms; basic pulse techniques; principles of electronic analogue computers. Emphasis on quantitative analysis and engineering design.

Mr. Barclay

EE 432 Communication Engineering**3 (2-3) s**

Prerequisite: EE 431

Departmental elective for seniors in Electrical Engineering

Application of electronic circuits and equipment to radio and wire communication systems. Elements of complete systems, wave propagation, antennas, transmitters, receivers, television, radar, electronic navigation systems, noise, special applications.

Mr. Barclay

EE 433 Electric Power Engineering**3 (2-3) f**

Prerequisites: EE 302 and EE 305

Departmental elective for seniors in Electrical Engineering

A study of industrial power supply and power factor correction; direct- and alternating-current motor characteristics, starting methods, dynamic braking and speed control; motor applications, and industrial control apparatus.

Mr. Bell

EE 434 Power System Analysis**3 (2-3) s**

Prerequisites: EE 302 and EE 305

Departmental elective for seniors in Electrical Engineering

Analysis of problems encountered in the long-distance transmission of electric power. Line parameters of the method of geometric mean distances. Circle diagrams, symmetrical components, and fault calculations. Elementary concepts of power system stability. Applications of digital computers to power-system problems.

Mr. Stevenson

EE 435 Elements of Control**3 (2-3) f**

Prerequisites: EE 314 and EE 305; or EE 430

Departmental elective for seniors in Electrical Engineering

Introductory theory of open and closed loop control. Functions and performance requirements of typical control systems and system components. Dynamic analysis of error detectors, amplifiers, motors, demodulators, analogue components and switching devices. Component transfer characteristics and block diagram representation.

Mr. Peterson

EE 438 Instrumentation in Nuclear Technology**3 (2-3) s**

Prerequisites: Either EE 430 or EE 301, EE 305 and EE 314; also MA 301

Required course in Nuclear Engineering, Instrumentation Option curriculum

Radiation detectors, pulse amplifiers, pulse shapers, amplitude discriminators, counters, coincidence circuits.

Mr. Manning

EE 440 Fundamentals of Digital Systems**3 (3-0) s**

Prerequisites: EE 314 or EE 430

Departmental elective for seniors in Electrical Engineering

The basic theory of digital computation and control. Introduction to number systems, data handling, relay algebra, switching logic, memory circuits, the application of electronic devices to switching circuits, and the design of computer control circuits.

Mr. Bell

Courses for Graduates and Advanced Undergraduates**EE 503 Linear Network Theory****3 (3-0) f**

Prerequisites: Senior standing in Electrical Engineering with "B" average in Electrical Engineering and Mathematics or EE 430

Analysis of linear networks with emphasis on the system functions of the network in the frequency domain and response in the time domain.

EE 506 Dynamical Analogies**3 (3-0) s**

Prerequisites: EE 301 or EE 331; EM 312 or EM 301; MA 301; "B" average in Electrical Engineering, Engineering Mechanics, and Mathematics

A study of dynamic systems in various branches of engineering and science with emphasis on the similarities that exist among such integrated groups of devices. Analogous elements and quantities in these fields as determined from equations basic to each. Analytical formulation of system problems in acoustical, electrical, mechanical, and related fields and their solution by analog methods. Use of electronic analog computers for the solution of system problems.

Mr. Eckels

EE 507 Electromagnetics**3 (3-0) f**

Prerequisites: Senior standing in Electrical Engineering with "B" average in Electrical Engineering and Mathematics or EE 430

Basic principles of electromagnetic field theory in vector analysis formulation, including static electric and magnetic fields, Maxwell's equations and applications to guided waves.

EE 512 Communication Theory**3 (2-3) s**

Prerequisites: EE 431, "B" average in Electrical Engineering and Mathematics

The frequency and time domain, modulation, random signal theory, autocorrelation, basic information theory, noise, communication systems.

Mr. Barclay

EE 516 Feedback Control Systems**3 (3-0) s**

Prerequisites: EE 401 and EE 435

Departmental elective for seniors in Electrical Engineering

Study of feedback systems for automatic control of physical quantities such as voltage, speed and mechanical position. Theory of regulating systems and servo-mechanisms. Steady state and transient responses. Evaluation of stability. Transfer function loci and root locus plots. Analysis using differential equation and operational methods. System and compensation and introduction to design.

Mr. Peterson

EE 517 Control Laboratory**1 (0-3) s**

Corequisite: EE 516

Laboratory study of feedback systems for automatic control of physical quantities such as voltage, speed and mechanical position. Characteristics of regulating systems and servo-mechanisms. The laboratory work is intended to contribute to an understanding of the theory developed in EE 516, Feedback Control Systems.

Mr. Peterson

EE 520 Fundamentals of Logic Systems**3 (3-0) s**

Prerequisite: EE 314 or EE 430

Boolean algebra, logic circuits, systematic minimization, block diagrams, logic systems in computers, diode and transistor logic, pulse operation, counters, multivibrators, cascaded systems, sequential systems.

Mr. Bell

Courses for Graduates Only**EE 605, 606 Electrical Engineering Seminar****1 (1-0) f s**

Prerequisite: Graduate standing in Electrical Engineering

A series of papers and conferences participated in by the instructional staff, invited guests, and students who are candidates for advanced degrees.

Mr. Eckels

EE 611, 612 Electric Network Synthesis**3 (3-0) f s**

Prerequisite: EE 501

A study of modern network theory, with the emphasis on synthesis, based on the work of Brune, Bode, Guillemin Bott and Duffin, Foster and many others. Both the realization problem and the approximation problem will be treated.

Mr. Hoadley

EE 613 Advanced Feedback Control**3 (3-0) s**

Prerequisite: EE 516

An advanced study of feedback systems for the control of physical variables. Analysis of follower systems and regulators. Mathematical and graphical description of systems. Stability theory and performance criteria. Frequency response and root locus methods of analysis. System compensation and design. Introductory analysis of non-linear systems.

Mr. Peterson

EE 615 Electromagnetic Waves**4 (3-3) f**

Prerequisite: EE 502

Maxwell's equations applied to a study of the propagation of energy by electromagnetic waves. Vector and scalar retarded potentials, propagation in free space and material media, guided electromagnetic waves, common waveguides, skin effects, resonant cavities. Microwave network theory applied to measurement problems.

Mr. Schafer

EE 616 Microwave Electronics**4 (3-3) s**

Prerequisite: EE 615

Frequency limitations of conventional electron tubes. Microwave power generation and control by interaction of electromagnetic fields with charged particles and molecular energy levels, and by non-linear reactances. Applications in klystrons, magnetrons, traveling-wave tubes, masers, and reactance amplifiers. Measurement problems and techniques in microwave region.

Mr. Barclay

EE 617 Pulse Switching and Timing Circuits**3 (3-0) s**

Prerequisites: EE 501 and EE 512

Tube and transistor circuit techniques for the production, shaping, and control of nonsinusoidal wave forms. Fundamental circuits needed in pulse information systems, instrumentation, and computers.

Mr. Barclay

EE 618 Antennas and Propagation**4 (3-3) s**

Prerequisite: EE 615

Electromagnetic wave theory applied to antennas and antenna arrays with emphasis on microwave frequencies. Calculation and measurement of directional characteristics, gain, field intensity, propagation via the ionosphere over various terrains, obstacle gain, gain height theory, forward scatter and other topics.

Mr. Schafer

EE 621 Electron Devices**3 (3-0) s**

Prerequisite: EE 615

Internal operation of electron tubes and transistors; similarities and differences stressed. Electrical conduction through vacuum and semi-conductors. Space charge, junction and diffusion effects. Characteristics of tubes and semiconductor devices at low frequencies and in various environments, parameters, and equivalent circuits of active devices.

Mr. Schafer

EE 637 Circuit Analysis of Power Systems**3 (3-0) f**

Prerequisite: EE 514

An advanced treatment of symmetrical components applied to unsymmetrical systems, and simultaneous faults.

Mr. Stevenson

EE 638 Power System Stability**3 (3-0) s**

Prerequisite: EE 514

A study of the principal factors affecting stability and of the method of making stability calculations. Illustrations of studies made on actual power systems.

Mr. Stevenson

EE 641 Advanced Digital Computer Theory**3 (3-0) s**

Prerequisite: EE 520

A study of the circuits and components of modern digital computers, including basic logic systems, codes, advanced systems of circuit logic, vacuum tube, transistor, and magnetic components. Memory devices, counters, converters, adders, accumulators, inputs, outputs, and computer control systems will be analyzed.

Mr. Bell

EE 643 Advanced Electrical Measurements**2 (2-0) s**

Prerequisites: EE 501, EE 431

A critical analysis of circuits used in electrical measurements, with special attention to such topics as balance convergence, effects of strays, sensitivity, the use of feedback in electronic devices, and automatic measuring systems.

Mr. Hoadley

EE 645, 646 Advanced Electromagnetic Theory**3 (3-0) f s**

Prerequisites: EE 615 or PY 503; MA 512

A comprehensive study of electromagnetic theory with emphasis on field theory applications. Charges in both uniform and accelerated motion, field equivalence principles, anisotropic media, ferrite media, variational methods for waveguide discontinuities, periodic structures including Floquet's theorem, integral transform and function-theoretical techniques, solid state theory applied to quantum electronic devices.

Mr. Schafer

EE 650 Electrical Engineering Research**Credits by arrangement**

Prerequisites: Graduate standing in Electrical Engineering and approval of adviser

Graduate Staff

EE 661, 662 Special Studies in Electrical Engineering**3 (3-0) f s**

This course provides an opportunity for small groups of advanced graduate students to study, under the direction of qualified members of the professional staff, advanced topics in their special fields of interest.

Graduate Staff

Engineering

E 100 Introduction to Engineering

Introduces the student to the profession of engineering and the characteristics and requirements of the study of engineering. **1 (1-0) f s**
Mr. Adams

E 500 Engineering Analysis

Prerequisites: Senior standing and selection for Honors Programs in Engineering **3 (3-0)**
This is an engineering "case method" experience, making use of the principles of engineering, physics and mathematics. Professors in Engineering and certain key individuals from industry will work singly with the professor in charge to introduce challenging engineering situations and to stimulate student analysis.

Engineering Honors

EH 300 Contemporary Trends In Engineering and Science

Prerequisite: For juniors in the Engineering Honors Program **1 (1-0) f s**
Representatives from varied fields of engineering and science introduce and discuss topics of current significance in their areas of interest.

EH 344 Rigid Body Dynamics I

Prerequisite: For members of the Engineering Honors Program or by permission of the instructor **3 (3-0) f s**
The study of the concepts and principles relating to the kinematics and kinetics of particles and rigid bodies. Illustration of the consequences and applications of the principles through problems of ballistics, orbital motion, vibrations, etc. The vector treatment is used extensively.

EH 345 Strength of Materials

Prerequisites: EM 311, EM 341. For members of the Engineering Honors Program or by permission of the instructor **3 (3-0) f s**
Introduction to the behavior of deformable solids. Development of relationships among loads, stresses, strains, and displacements. Mathematical representation and analysis of the behavior of shells, beams, shafts, columns, etc.

EH 346 Fluid Mechanics

Prerequisites: EM 312 or EH 344, MA 301. For members of the Engineering Honors Program or by permission of the instructor **3 (3-0) s**
Study of the concepts and principles relating to fluid mechanics. Equilibrium of liquids and gases, kinematics and dynamics of frictionless fluids. Motion of viscous fluids, Dynamics of gases. Flow measurement techniques.

EH 371 Thermodynamics I

Prerequisite: For members of the Engineering Honors Program or by permission of the instructor **3 (3-0) f**
A study of the basic principles and concepts of thermodynamics. The First and Second Laws are studied with emphasis on the generality and consequences of the basic laws. The mathematics of property relationships as well as properties of working substances are investigated. Applications of the principles to diverse fields such as elasticity, electromagnetism, propulsion are presented to emphasize generality.

EH 372 Thermodynamics II

Prerequisites: EH 371. For members of the Engineering Honors Program or by permission of the instructor **3 (3-0) s**
Thermodynamics of compressible fluid flow, normal shock relations, generalized conservation equations, nozzle flow, one dimensional flows, thermodynamic equilibrium, free energy functions, Gibbs phase rule, and generalized criteria for equilibrium. Thermodynamics of chemically reactive systems, stoichiometry, standard states, heats of reaction and formation, equilibrium composition, adiabatic flame temperature, dissociation. Introduction to Statistical Thermodynamics, thermodynamics of electromagnetic fields, thermodynamics of radiation.

EH 401 Special Topics in Engineering**1-4 f s**

Prerequisite: For members of the Engineering Honors Program or by permission of the instructor

Special projects in various phases of engineering.

Engineering Mechanics

Courses for Undergraduates

EM 200 Introduction to Mechanics**3 (3-0) f s**

Corequisite: MA 301

An introduction to the principles and concepts which form the basis for studies in dynamics, solid mechanics, and fluid mechanics. The nature and properties of force systems and stress fields. The motion of particles and description of deformation of continuous media. The role of Newton's laws, the concepts of continuity and equilibrium, and the conservational principles in problems in mechanics.

EM 301 Solid Mechanics I**3 (3-0) f s**

Prerequisite: EM 200

Introduction to the mechanics of deformable solids. Development of the equations which describe the linear elastic solid. Approximate solutions and solutions governed by the theory of elasticity to problems involving prescribed force systems, states of motion, or energy inputs.

EM 302 Solid Mechanics II**3 (3-0) f s**

Prerequisite: EM 301

Continuation of EM 301. Equations for thin plates. Introduction to the theory of plasticity. Theories of yielding, plastic stress-strain relationships, and two-dimensional problems in plastic behavior.

EM 303 Fluid Mechanics I**3 (3-0) f s**

Prerequisite: EM 200

Development of the basic equations of fluid mechanics in general and specialized form. Application of these specialized equations to a variety of topics including (1) fluid statics, (2) inviscid, incompressible fluid flow, and (3) viscous, incompressible fluid flow.

EM 304 Fluid Mechanics II**3 (3-0) f s**

Prerequisite: EM 303

Continuation of EM 303. Further applications of the basic equations of fluid mechanics to (1) boundary layer analysis, (2) laminar and turbulent flows and (3) compressible fluid flow. Introduction to experimental methods in fluid mechanics.

EM 341 Mechanics A (Statics)**2 (2-0) f s**

Prerequisites: PY 201 or PY 211, MA 201 or MA 211

Forces, resultants and equilibrium of concurrent, parallel and non-concurrent non-parallel force systems; statics applied to engineering problems and the solution of stress in simple trusses. Centroids and moments of inertia.

EM 342 Mechanics B (Dynamics)**2 (2-0) f s**

Prerequisite: EM 341 or EM 200

The kinematic and kinetic study of motion of particles and rigid bodies; absolute and relative motion. Methods of force, mass and acceleration; work and energy impulse and momentum.

EM 343 Strength of Materials A**2 (2-0) f s**

Prerequisite: EM 200 or EM 341

Axial and shear stresses and strains; pure torsion of circular shafts; external shears and moments; the distribution of internal shearing and bending stresses; introduction to deflection theory; column theory; design of axially loaded columns.

EM 401 Experimental Mechanics I**3 (0-6) f s**

Prerequisites: EM 301, 303

A course in the principal experimental methods employed in the analysis of contemporary problems of engineering in which mechanics dominates. Special emphasis is given to those phenomena which give rise to instruments for measurement of prime mechanical variables. Experimental analysis of mechanical fields and interpretation of data are major topics.

EM 402 Experimental Mechanics II**3 (0-6) f s**

Prerequisite: EM 401

Selected experiments which illustrate basic phenomena of mechanics in engineering systems. A particular emphasis is the experimental synthesis of such systems and the evaluation of their behavior as designed.

EM 430 Fluid Mechanics**2 (2-0) f s**

Prerequisite: EM 342

Fluid statics, kinematics, Bernoulli equation, momentum, free-surface flow, viscosity, pipe friction, drag on submerged bodies, lift, elastic wave propagation.

Courses for Graduates and Advanced Undergraduates

EM 501, 502 Continuum Mechanics I, II**3 (3-0) f s**

Prerequisites: EM 301; 303; ME 301; MA 405

The concepts of stress and strain are presented in generalized tensor form. Emphasis is placed on the discussion and relative comparison of the analytical models for a series of continua including the linear elastic solid, the perfect fluid and the viscous (Newtonian) fluid. The underlying thermodynamic principles are presented, the associated boundary value problems are formulated and selected examples are used to illustrate the theory.

EM 503 Theory of Linear Elasticity**3(3-0) f s**

Prerequisites: EM 301; MA 301

The differential equation approach employed in development of the equations representing the behavior of a linear elastic solid. The elastic problem formulated in two and three dimensions and various coordinate systems. Application of the theory illustrated through selected problems.

EM 504 Mechanics of Ideal Fluids**3 (3-0) f s**

Prerequisite: EM 430 or EM 304; Corequisite: MA 513

Basic equations of ideal fluid flow; potential and stream functions; vortex dynamics; body forces due to flow fields; method of singularities in two-dimensional flows; analytical determination of potential functions; conformal transformations; free-streamline flows.

EM 505 Mechanics of Viscous Fluids I**3 (3-0) f**

Prerequisite: EM 430 or EM 304; Corequisite MA 532

Equations of motion of a viscous fluid (Navier-Stokes Equations); general properties of the Navier-Stokes equations; some exact solutions of the Navier Stokes equations; boundary layer equations; some approximate methods of solution of the boundary layer equations; laminar boundary layers in axi-symmetric and three-dimensional flows; unsteady laminar boundary layers.

(Offered in fall semester of 1962-63)

EM 506 Mechanics of Compressible Fluid I**3 (3-0) f**

Prerequisites: EM 430 or EM 304; ME 302; Corequisite: MA 532

Introduction to compressible fluid flow; isentropic, one-dimensional flow; Rayleigh and Fanno line flows; generalized one-dimensional flow; normal shock waves; introduction of multi-dimensional, compressible flow.

(Offered in the fall semester of 1963-64)

EM 507 Systems Analysis**3 (3-0) f**

Prerequisites: EM 301; 303; MA 511

A course in the design of engineering systems in which mechanics dominates.

(Offered in the fall semester of 1963-64)

EM 508 Systems Synthesis**3 (3-0) s**

Prerequisite: EM 507

A course in the design of engineering systems in which mechanics dominates.

(Offered in the fall semester of 1963-64)

EM 509 Space Mechanics I**3 (3-0) f**

Prerequisites: EM 302; EM 304; Corequisite: MA 511

The application of mechanics to the analysis and design of orbits and trajectories. Trajectory computation and optimization; space maneuvers; re-entry trajectories; interplanetary guidance.

(Offered in the fall semester of 1962-63)

EM 510 Space Mechanics II**3 (3-0) s**

Prerequisites: EM 509; MA 511

Continuation of EM 509. The analysis and design of guidance systems. Basic sensing devices; the characteristics of an inertial space; the theory of stabilized platforms; terrestrial inertial guidance.

(Offered in the spring semester of 1962-63)

EM 511 Theory of Plates and Shells**3 (3-0) s**

Prerequisites: EM 301 accompanied by MA 511

A modern study of the theory of plates and shells. Topics are selected from problems involving membranes; folded plates, circular and rectangular slabs, domes, cylindrical shells and hyperbolic paraboloids. Solutions are obtained by both classical and modern numerical methods.

(Offered in the spring semester of 1962-63)

EM 551 Advanced Strength of Materials**3 (3-0) f**

Prerequisites: EM 301

Stresses and strains at a point; rosette analysis; stress theories, stress concentration and fatigue; plasticity; inelastic, composite and curved beams; prestress energy methods shear deflections; buckling problems and column design; and membrane stresses in shells.

EM 552 Elastic Stability**3 (3-0) f**

Prerequisites: MA 301; MA 405; EM 551

A study of elastic and plastic stability. The stability criterion as a determinant. The energy method and the theorem of stationary potential energy. The solution of buckling problems by finite differences and the calculus of variations. The application of successive approximations to stability problems. Optimization applied to problems of aeroelastic and civil engineering structures.

(Offered in the fall semester of 1963-64)

EM 555 Dynamics I**3 (3-0) f**

Prerequisites: EM 301; MA 405

The theory of vibrations from the Lagrangian formulation of the equations of motion. Free and forced vibrations with and without damping, multiple degrees of freedom, coupled motion, normal mode vibrations, wave propagation in solid bodies.

(Offered in the fall semester of 1963-64)

EM 556 Dynamics II**3 (3-0) s**

Prerequisites: EM 301; MA 405

The dynamics of particles and rigid bodies by the use of formulations of the laws of mechanics due to Newton, Euler, Lagrange, and Hamilton. Accelerated reference frames, constraints, Euler's angles, the spinning top, the gyroscope, precession, stability, phase space, and nonlinear oscillatory motion.

(Offered in the spring semester of 1963-64)

Courses for Graduates Only

EM 601, 602 Unifying Concepts in Mechanics I, II

3 (3-0) f s

Prerequisite: PY 601

Generalized treatment of the fundamental equations and boundary value problems of continuous and non-continuous media. Use is made of contemporary developments in irreversible thermodynamic, statistical mechanics, and electrodynamics to provide a unified foundation for the development of principles governing the dynamics and thermodynamic behavior of elastic, plastic and visco-elastic solids, viscous fluids and rheological media.

(Offered in the fall and spring semesters of 1962-63)

EM 604 Theory of Plasticity

3 (3-0) s

Prerequisite: MA 503

Development of the equations representing the plastic behavior of deformable solids. Yield conditions and plastic stress-strain relations. Plane strain theory, hyperbolic equations and slip line fields. Selected problems to illustrate the theory.

(Offered in the spring semester 1963-64)

EM 605 Plastic Limit Analysis

3 (3-0) s

Prerequisite: EM 503

Determination of the load carrying capacity of perfectly plastic structures including frames, plates, and shells. Emphasis on the underlying principles and general methods of analysis for bodies involving three-dimensional states of stress.

(Offered in the spring semester of 1962-63)

EM 611 Mechanics of Compressible Fluids II

3 (3-0) s

Prerequisite: EM 506

Continuation of EM 506; linearized theory of two-dimensional, compressible flow; method of characteristics for two-dimensional supersonic flow; oblique shock waves; unsteady one-dimensional flow; shock-wave boundary layer interactions; transonic flow.

(Offered in the spring semester of 1963-64)

EM 612 Mechanics of Viscous Fluids II

3 (3-0) s

Prerequisite: EM 505

Continuation of EM 505; phenomenological theories of turbulence; turbulent flow in ducts and pipes; turbulent boundary layer with and without pressure gradient; compressible boundary layer with and without pressure gradient; compressible boundary layer; boundary layer control; free viscous flow.

(Offered in the spring semester of 1962-63)

EM 695 Experimental Methods in Mechanics

Maximum 6 credits s

Prerequisite: Consent of instructor

The study of specialized experimental techniques utilized in contemporary research in the areas of Mechanics.

EM 697 Seminars in Mechanics

Maximum 3 credits f

Prerequisites: Graduate standing and consent of adviser

The discussion and development of theory relating to contemporary research in the frontier areas of Mechanics.

EM 698 Special Topics in Mechanics

Maximum 9 credits f s

The study, by small groups of graduate students under the direction of members of the faculty, of topics of particular interest in various advanced phases of mechanics.

EM 699 Research in Mechanics

Maximum 6 credits f s

Individual research in the field of Mechanics.

English

Freshman English

ENG 111 Composition and Rhetoric

3 (3-0) f s

Required of all freshmen

Intensive study and practice in the basic forms and principles of expository communication; conferences.

ENG 112 Composition and Reading

3 (3-0) f s

Required of all freshmen

Continued practice in expository writing; research paper; introduction to literary types; collateral reading; conferences.

Note: Qualified students will be allowed to register for ENG 112 and will be given credit for both 111 and 112 upon successful completion of the latter. Eligibility for 112 will be based on a predetermined score on the Verbal Aptitude section of the SAT plus a composition to be written at the first or second class meeting of the 112 section.

Writing

ENG 211 Business Communications

3 (3-0) f s

Prerequisite: ENG 112

Practical application of the principles of composition to effective business communications, including basic types of correspondence and reports. Special attention will be paid to vocabulary building, and work will be given in oral business communications.

ENG 215 Principles of News and Article Writing

3 (3-0) f s

Prerequisite: ENG 112

Introduction to the writing of simple news articles; class criticism of non-technical newspaper and magazine articles.

ENG 216 Advanced Article Writing

3 (3-0) s

Prerequisites: ENG 112 and 215 or equivalent

A continuation of ENG 215, with intensive practice in writing and criticizing non-technical articles.

ENG 222 Advanced Composition (Creative Writing)

3 (3-0) s

Prerequisite: ENG 112

A course in creative writing especially designed for students who have demonstrated ability; emphasis on short prose fiction.

ENG 223 Vocabulary Building

3 (3-0) s

Prerequisite: ENG 112

A system of increasing the student's mastery of useful words as found in the best modern English prose.

ENG 321 Scientific Writing

3 (3-0) f s

Prerequisite: ENG 112

Intensive practice in writing technical and scientific reports, articles for journals, and business letters relating to technical reports.

ENG 424 Modern English Usage

3 (3-0) f s

Prerequisite: ENG 112

An intensive study of English grammar with particular emphasis on contemporary usage. A brief survey of the historical development of the language will be included.

Speech

ENG 231 Basic Speaking Skills

3 (3-0) f s

Prerequisite: ENG 112

Training in the fundamentals of public speaking; supplementary training in some aspects of group discussion (panel, forum, symposium or committee) and in the techniques of good listening.

ENG 332 Argumentation and Persuasion

3 (3-0) f

Prerequisite: ENG 231 or equivalent

Analysis, brief-drawing and evidence, and methods of proof and refutation; fundamentals of conviction; naturalness and forcefulness, extempore speeches, debates and discussions.

ENG 333 Public Address and Extemporaneous Speaking

3 (3-0) s

Prerequisite: ENG 231 or equivalent

Public speaking for special occasions, including speech of introduction, committee-room speech, after-dinner speech, speech at professional conventions, political speech, formal sales talk.

ENG 334 Oral Reading

3 (3-0) s

Prerequisites: ENG 112 and 231, or approval of the department

Training in the analysis and presentation of printed materials, technical and semi-technical, for platform, radio, and television. Emotional reactions to add color and interest; expressive body and voice; correction of faulty habits.

ENG 336 Parliamentary Practice

3 (3-0) f s

Prerequisite: ENG 112

(Not to be counted toward the fulfillment of any requirement in languages, humanities or social sciences without specific authorization.)

Rules and customs of assemblies, including organization, motions; participation in and conduct of meetings; parliamentary strategy.

ENG 337 Group Discussion

3 (3-0) f s

Prerequisites: ENG 112 and 231, or approval of the department

The theory and practice of leading and taking part in such groups as panels, forums, symposiums, conferences and committees. Oral and written assignments. Frequent recordings.

Literature

Note: ENG 112 is prerequisite to all courses in literature.

ENG 205 Reading for Discovery

3 (3-0) f s

A study of selected masterworks drawn from American, English and European literature with emphasis on the great themes and on the approach of the creative artist to basic ideas in Western culture.

ENG 361 Backgrounds of English Civilization (I)

3 (3-0) f

A reading course in English literature from the Anglo-Saxon invasions to the Romantic period, with an emphasis on the contributions of English life and thought to Western Civilization.

ENG 362 Backgrounds of English Civilization (II)

3 (3-0) s

English literature from the Romantic period to the present day. This course may be taken either as a continuation of ENG 361 or as an independent course.

ENG 365 The American Mind (I)

3 (3-0) f

The development of American thought and civilization as reflected in American literature from the colonial settlements through the New England revival of the nineteenth century.

ENG 366 The American Mind (II)**3 (3-0) s**

The background of contemporary American literature and thought, from Mark Twain to Hemingway and Faulkner. This course may be taken either as a continuation of ENG 365 or as an independent course.

ENG 375 Southern Writers**3 (3-0) s**

An introduction to Southern culture as revealed in poetry and short fiction from Poe to the present day. Readings in the Southern essay dealing with social, political, and literary problems.

ENG 382 Short Prose Fiction**3 (3-0) f**

The study of selected short stories by the most representative of contemporary British and American writers.

ENG 460 Literature of Scientific Thought**3 (3-0) f s**

Chief documents of scientific thought from Aristotle to the present day with emphasis on literary values.

ENG 468 Major American Writers**3 (3-0) f s**

Concentrated study of the writings of Emerson, Thoreau, Melville, and Whitman as they exemplify the spirit of American individualism.

(Students may not receive credit for both ENG 365 and ENG 468.)

ENG 471 The Novel**3 (3-0) f s**

Intensive analysis of some of the most influential English, American, and Continental novels chosen to illustrate the structure and the development of the form.

ENG 480 Modern Drama**3 (3-0) s**

A study of the development of modern drama as a form for the expression of social and humanistic ideas through a systematic examination of the plays of Ibsen, Shaw, and Eugene O'Neill.

ENG 485 Shakespeare**3 (3-0) s**

A study of the principal plays with emphasis on reading Shakespeare for enjoyment.

ENG 496 Literature of the Western World**3 (3-0) f**

Readings from selected great books from the Homeric period of Greek literature to the Renaissance in Europe. Emphasis on the contributions of this literature to modern thought.

ENG 497 Literature of the Non-Western World**3 (3-0) s**

Study of a selected group of translations from the literature of Persia, India, China, and Japan as they reflect cultural backgrounds.

ENG 498 Contemporary Literature**3 (3-0) s**

A study of selected examples of American, British, and Continental writing from 1890 to the present day with reference to changing literary forms and themes.

ENG 499 Literary Analysis (Senior Seminar)**3 (3-0) f s**

Prerequisites: ENG 112 and departmental approval

A flexible course in reading and criticism designed to synthesize the student's preceding work in literature and to provide a capstone for his undergraduate program.

Entomology

Courses for Undergraduates

ENT 301 Introduction to Forest Insects**3 (2-2) f**

An introductory course covering the fundamentals of classification, development, habit, and control of forest insects.

Mr. Farrier

ENT 312 Introduction to Economic Insects**3 (2-2) f or s**

A basic course, covering the fundamentals of insect classification, development, food habits, and controls.

Mr. Brett

ENT 322 Beekeeping**3 (2-2) s**

Prerequisite: Consent of instructor

A basic course dealing with the place of the honeybee in our agricultural economy; the colony and its components; management; manipulation; honey production, care and marketing.

Mr. Stephen

Courses for Graduates and Advanced Undergraduates

ENT 501-502 Insect Morphology**3 (1-4) f s**

Prerequisite: ENT 301 or 312

Covers general morphology, external and internal, of the insects and their relatives. ENT 501 will deal primarily with external morphology and ENT 502 with internal morphology. (Will be offered 1963-64 and alternate years.)

Mr. Young

ENT 506 Chemistry of Insecticides**3 (2-2) s**

Prerequisites: ENT 312, CH 203

A study of the critical chemical, physical, and biological properties of compounds used for insect control. This course is directed toward obtaining fundamental knowledge of the scientific principles underlying modern methods of plant protection including details of actual methods of insecticide application. (Will be offered 1963-64 and alternate years.)

Mr. Guthrie

ENT 511 Systematic Entomology**3 (1-4) f**

Prerequisite: ENT 301 or 312

A somewhat detailed survey of the orders and families of insects, designed to acquaint the student with these groups and develop in the student some ability in the use of keys, descriptions, etc. (Will be offered 1963-64 and alternate years.)

Mr. Young

ENT 531 Insect Ecology**3 (2-2) f**

Prerequisite: ENT 301 or 312 or equivalent

The influence of environmental factors on insect development, distribution, and abundance. (Will be offered 1963-64 and alternate years.)

Mr. Rabb

ENT 541 Immature Insects**4 (2-4) f**

Prerequisite: ENT 301 or 312 or equivalent

A study of the characteristics of the immature forms of the orders and principal families of insects. (Will be offered 1962-63 and alternate years.)

Messrs. Rabb, Neunzig

ENT 551, 552 Applied Entomology**3 (2-2) f s**

Prerequisite: ENT 301 or 312

An advanced course in which the principles of applied entomology are studied in respect to the major economic insect pests. Methods of determining and examining insect damage, the economic importance of insects, and the chief economic pests of man, food, and fiber are studied as well as laws and regulations pertaining to insects and insecticides. (Will be offered 1962-63 and alternate years.)

Mr. Mistic

ENT 561 Literature and History of Entomology**3 (3-0) f**

Prerequisite: ENT 301 or 312 or equivalent

A general course intended to acquaint the student with literature problems of the scientist, mechanics of the library and book classification, bibliographies of the zoological sciences, abstract journals, forms of bibliographies, forms of literature, preparation of scientific papers; taxonomic indexes and literature (with a historical background) and history of the development of zoological science from ancient to modern times with emphasis on entomology. (Will be offered 1963-64 and alternate years.)

Mr. Farrier

ENT 571 Forest Entomology**3 (2-2) f**

Prerequisite: ENT 301 or 312

A study of methods of identification of forest pests, the factors governing their abundance habits, and control. (Will be offered 1963-64 and alternate years.) Mr. Farrier

ENT 582 (ZO 592) Medical and Veterinary Entomology (Parasitology)**3 (2-3) s**

Prerequisite: ENT 301 or 312

A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals. (Will be offered 1963-64 and alternate years.)

Messrs. Harkema, Farrier

ENT 590 Special Problems**Credits by arrangement**

Prerequisites: Graduate standing and consent of the instructor

Original research on special problems in entomology not related to a thesis problem, but designed to provide experience and training in research. Graduate Staff

ENT 592 Acarology**3 (2-2) s**

Prerequisite: ENT 301 or 312, or ZO 103

A systematic survey of the mites and ticks with emphasis on identification, biology and control of the more common and economic forms attacking material, plants and animals including man. (Will be offered 1962-63 and alternate years.) Mr. Farrier

Courses for Graduates Only**ENT 602 Principles of Taxonomy****3 (1-4) s**

Prerequisite: ENT 511

A course introducing the methods and tools used in animal taxonomy, designed to promote a better understanding of taxonomic literature, and provide a foundation for taxonomic research. (Will be offered 1962-63 and alternate years.) Mr. Young

ENT 611 Insect Physiology**4 (3-2) f**

Prerequisite: ENT 312, ENT 502, CH 451, or equivalent

The course deals with the physiology and biochemistry of insects. The function of the different organ systems and the intermediary metabolism of insects will be considered. Laboratory work will include techniques of current importance in physiological research. (Will be offered 1962-63 and alternate years.) Mr. Hodgson

ENT 622 Insect Toxicology**4 (2-4) s**

Prerequisite: ENT 312, CH 426 or equivalent

The course deals with the relationship of chemical structure to toxicity in insects. The biochemical mechanisms involved in toxication and de-toxication will be stressed as well as physiological explanation of the chemical poisoning of insects. The biochemical, behavioral, and morphological explanation of resistance to insecticides will be studied. Laboratory work involves cholinesterase inhibition, dehydrochlorination of DDT by resistant houseflies, comparative toxicity of insecticides, and bioassay methods. (Will be offered 1962-63 and alternate years.) Mr. Guthrie

ENT 680 Seminar**1-1 f s**

Prerequisite: Graduate standing in Entomology or closely allied fields

Discussion of entomological topics selected and assigned by Seminar Chairman.

Graduate Staff

ENT 690 Research**Credits by arrangement**

Prerequisite: Graduate standing in Entomology or closely allied fields

Original research in connection with thesis problem in entomology.

Graduate Staff

Experimental Statistics

Courses for Undergraduates

ST 302 Machine Techniques for Data Processing 2 (1-2) s
The use of conventional IBM punch card machines with special emphasis on the processing of data using a stored program calculator. Mr. Verlinden

ST 311 Introduction to Statistics 3 (2-2) f s
This course will relate general statistical concepts to everyday life and will emphasize giving perspective to these concepts in place of developing skill. Quantitative descriptions of populations, sampling ideas, techniques of making inferences about populations from samples and the uncertainties involved in such inferences. Formulation and testing of hypotheses, elementary and basic statistical techniques. Messrs. McVay, Monroe

ST 361 Introduction to Statistics for Engineers I 3 (3-0) f s
Prerequisite: College Algebra
Survey of statistical techniques useful to engineers and physical scientists. Includes elementary probability, frequency distributions, estimation of means and standard deviations, sampling variation, control charts, elementary least squares curve fitting. Messrs. Hader, Grandage

ST 362 Introduction to Statistics for Engineers II 3 (2-2) s
Prerequisite: ST 361
Continuation of ST 361. Additional and more advanced statistical methodology for engineers and physical scientists. Includes least squares method for fitting polynomials and multiple regression; chi-square tests; sampling acceptance inspection; introduction to analysis of variance and design of experiments. Messrs. Hader, Grandage

ST 421, 422 Introduction to Mathematical Statistics 3 (3-0) f s
Prerequisite: MA 212
Elementary mathematical statistics primarily for students not intending to take further work in theoretical statistics. Includes introduction to probability, common theoretical distributions, moments, moment generating functions, sampling distributions, (F, t, chi-square), elementary estimation and hypothesis testing concepts, bivariate distributions, simple and multiple linear regression, analysis of variance, and elementary design of experiments. Staff

Courses for Graduates and Advanced Undergraduates

ST 501, 502 Basic Statistical Analysis 3 (3-0) f s
Prerequisite: ST 311 or equivalent or graduate standing
Basic concepts of statistics; random variables, distributions, statistical measures, estimation, tests of significance, analysis of variance, elementary design and sampling, factorial experiments, multiple regression, analysis of discrete data, and other topics. Intended primarily for statistics majors and Ph.D. minors and not intended as a service course for other departments. Mr. Steel

ST 511 Experimental Statistics for Biological Sciences I 3 (3-0) f s
Prerequisite: ST 311 or graduate standing
Basic concepts of statistical models and use of samples; variation, statistical measures, distributions, tests of significance, analysis of variance and elementary experimental design, regression and correlation, chi-square. Messrs. Monroe, Rawlings

ST 512 Experimental Statistics for Biological Sciences II 3 (3-0) f s
Prerequisite: ST 511 or equivalent
Covariance, multiple regression, factorial experiments, individual degrees of freedom, incomplete block designs, experiments repeated over space and time. Mr. Mason

ST 513 Experimental Statistics for Social Sciences I**3 (3-0) f**

Prerequisite: ST 311 or graduate standing

Basic concepts in collection and analysis of data. Variability of sample data, distributions, confidence limits, chi-square, t-test, analysis of variance, regression, correlation, analytic and descriptive surveys, experimental designs, index numbers.

Mr. McVay

ST 514 Experimental Statistics for Social Sciences II**3 (3-0) s**

Prerequisite: ST 513 or equivalent

Extension of basic statistical concepts to social experiments and surveys; sampling from finite populations and estimating using unrestricted, stratified, systematic, and multistage selections; analysis of variance continued; multiple regression; covariance; experimental designs.

Mr. Proctor

ST 515, 516 Experimental Statistics for Engineers**3 (3-0) f s**

Prerequisite: ST 361 or graduate standing

General statistical concepts and techniques useful to research workers in engineering, textiles, wood technology, etc. Probability, distributions, measurement of precision, simple and multiple regression, tests of significance, analysis of variance, enumeration data, sensitivity data, life testing experiments and experimental design.

Mr. Hader

ST 521 Basic Statistical Inference**3 (2-2) s**

Prerequisites: MA 522 and MA 511

Frequency distributions and moments; sampling distributions; introductory theory of point and interval estimation; tests of hypotheses.

Mr. Grandage

ST 522 Basic Theory of Least Squares and Variance Components**3 (2-2) f**

Prerequisites: ST 521 and MA 405

Theory of least squares; multiple regression; analysis of variance and covariance; experimental design models; factorial experiments; variance component models.

Mr. Anderson

ST 591 Special Problems**1-3 credits by arrangement f s**

Development of techniques for specialized cases, particularly in connection with thesis and practical consulting problems.

Graduate Staff

Courses for Graduates Only**ST 611, 612 Intermediate Statistical Theory****3 (3-0) f s**

Prerequisites: ST 521, MA 512 and MA 405

This course will provide the additional theory, above that of ST 521, needed for many advanced theory courses. Many of the topics of ST 521 will be developed more rigorously, with more attention paid to mathematical aspects. Advanced probability theory; limit theorems, distribution theory, multinormal distributions. Statistical decision theory, theory of estimation, confidence regions, theory of tests of hypotheses, sequential tests, non-parametric methods.

Mr. Hall

ST 621 Statistics in Animal Science**3 (3-0) f**

Prerequisite: ST 502 or equivalent

Sources and magnitudes of errors in experiments with animals, experimental designs and methods of analysis adapted to specific types of animal research, relative efficiency of alternate designs, amount of data required for specified accuracy, student reports on selected topics.

Offered in fall of 1963-64 and alternate years.

Mr. Lucas

ST 622 Principles of Biological Assays**3 (2-2) s**

(See ANS 622)

ST 623 Statistics in Plant Science**3 (3-0) f**

Prerequisite: ST 502 or equivalent

Principles and techniques of planning, establishing, and executing field and greenhouse experiments. Size, shape and orientation of plots; border effects; selection of experimental material; estimation of size of experiments for specified accuracy; scoring and subjective tests; subsampling plots and yields for laboratory analysis.

Mr. Mason

ST 626 Statistical Concepts in Genetics**3 (3-0) s**

Prerequisite: GN 512; Corequisite: ST 502 or equivalent

Factors bearing on rates of change in population means and variances, with special reference to cultivated plants and domestic animals; selection, inbreeding, magnitude and nature of genotypic and non-genotypic variability; experimental and statistical approaches in the analysis of quantitative inheritance.

Mr. Cockerham

ST 631 Theory of Sampling Applied to Survey Design**3 (3-0) f**

Prerequisites: ST 422; ST 502 or equivalent

Basic theory of sampling from a finite population. Confidence limits and estimation of optimum sample size, comparison of different sample designs, methods and probabilities for selection and methods of estimation, choice of a sampling unit, double sampling, matched samples.

Messrs. Proctor, Koop

ST 641 (RS 641) Statistics in Sociology**3 (3-0) f**

Prerequisite: ST 513 or equivalent

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments and techniques for the more frequently encountered problems and forms of data.

Mr. Hamilton

ST 651 (AGC 651) Econometric Methods I**3 (3-0) f**

Prerequisites: ST 421; ST 502 or equivalent; AGC 641

The role and uses of statistical inference in agricultural economic research; measurement problems and their solutions arising from the statistical model and the nature of the data; limitations and interpretation of results of economic measurement from statistical techniques. Topics include the problems of specification, aggregation, identification, multicollinearity and autocorrelation. Attention also is given to expectations models and simultaneous stochastic equations.

Mr. Wallace

ST 652 (AGC 652) Econometric Methods II**3 (3-0) s**

Prerequisites: ST 422 and AGC 551

Techniques for problem analysis in agricultural economics; attention to analysis of time series data; non-parametric inference; experimental design in economic research; estimation of parameters in production functions and in simultaneous models; selected special topics.

Mr. Anderson

ST 661 Advanced Special Problems**1-3 credits by arrangement f s**

Prerequisites: ST 502 or equivalent; ST 522

Any new advance in the field of statistics which can be presented in lecture series as unique opportunities arise, including (a) theory of sampling applied to survey design and (b) analysis of messy data.

Graduate Staff, Visiting Professors

ST 671 Advanced Topics in Least Squares and Variance Components**3 (3-0) s**

Prerequisites: ST 502 or equivalent; ST 522

Use of non-balanced designs to estimate variance components; comparison of estimators; problems with finite populations. Least squares procedures for non-standard conditions; unequal variances, correlated errors, non-additivity, measurement errors, non-normality. Functional relationships. Factorial experiments with continuous factor levels; incomplete blocks.

Mr. Anderson

ST 672 Special Advanced Topics in Statistical Analysis**3 (3-0) f**

Prerequisites: ST 502 or equivalent; ST 522

Enumeration data; covariance; non-linear models; discriminant functions and other multivariate techniques.

Mr. Monroe

ST 674 Advanced Topics in Construction and Analysis of Experimental Designs**3 (3-0) s**

Prerequisites: ST 502 or equivalent; ST 522

Inter-block analysis of incomplete blocks designs, partially balanced designs, confounding, data collected at several places and times, multiple factor designs, change-over trials, analysis of groups of means.

Graduate Staff

ST 681 Seminar

A maximum of two credits is allowed toward the master's degree, but any number toward the doctorate.

1 (1-0) f s

Graduate Staff

ST 691 Research

A maximum of nine credits is allowed toward the master's degree; no limitation on credits in doctorate programs.

Credits by arrangement f s

Graduate Staff

Food Science

Courses for Undergraduates

FS 301 Food Composition**3 (2-3) f**

Prerequisite: CH 220 or 221

Basic principles and procedures for the analysis of moisture, ash, carbohydrate, fat and protein contents of foods. Measurement of certain physical characteristics of foods.

Mr. Warren

FS 303 (ANS 303) Meat and Meat Products**3 (2-3) s**

Prerequisite: CH 351

Study of live animal and carcass relationship, dressing percentages and cut-out values. Slaughtering, cutting, curing, freezing and handling of meat and meat products for commercial and home use.

Mr. Blumer

FS 309 (ANS 309) Meat Selection**1 (0-6) f**

Detailed consideration of factors involved in selection of carcasses and wholesale cuts of beef, pork and lamb. Practice in identification of wholesale and retail cuts.

Mr. Craig

FS 331 (AGE 331) Food Engineering**3 (2-3) s**

Prerequisite: PY 211 or 221

Basic engineering principles applicable, wholly or in part, to food processing. Forms of energy and how they can be altered in state, composition, direction or force to fulfill the processing requirements. Latest means of energy conversion to affect efficient and practical applications to power, heat, refrigeration and irradiation. Instruments and controls for processing with applicable principles of fluid flow, heat transfer, air-vapor relationships, filtration, separation and materials handling by mechanical and flotation methods.

Mr. Jones

FS 401 Market Milk and Related Products**3 (2-3) f**

Principles of processing, distribution and quality control of fluid milk and related products.

Mr. Warren

FS 403 Ice Cream and Related Frozen Dairy Foods**3 (2-3) s**

Prerequisite: FS 401

Choice, preparation and processing of ingredients and freezing of ice cream and other frozen desserts.

Mr. Warren

FS 404 (PO 404) Poultry Products**3 (2-3) f**

Prerequisites: CH 101 and ZO 103

Selection, processing, grading and packaging poultry meat and eggs. Factors involved in preservation of poultry meat and eggs.

Mr. Fromm

FS 410 Food Products Evaluation**3 (2-3) s**

Prerequisite: ST 361

A comprehensive study of problems encountered in new food product development and consumer acceptance. A study of the nature of sensory responses with emphasis on taste, smell and appearance (color) as related to foods; design and methodology of small and large consumer panel testing; and the application of appropriate mathematical procedures to food acceptance testing and methodology.

Mr. Hoover

Courses for Graduates and Advanced Undergraduates

FS 502 Food Chemistry 3 (3-0) f
Prerequisite: CH 220 or 221

The basic composition, structure and properties of food, and the chemistry of changes occurring during processing and utilization of the food. Interpret and integrate widely published data in the food field with basic principles of chemistry.
Mr. Aurand

FS 503 Food Analysis 3 (1-6) s
Prerequisites: CH 215, CH 351 and FS 502

A study of the principles, methods and techniques necessary for quantitative physical and chemical analyses of food and food products. Results of analysis will be studied and evaluated in terms of quality standards and governing regulations.
Mr. Aurand

FS 505 (BO 505) Food Microbiology 3 (2-3) s
Prerequisite: BO 412

The relationship of habitat to the occurrence of microorganisms on foods; environmental factors affecting the growth of various microorganisms in foods; microbiological action in relation to food spoilage and food manufacture; physical, chemical and biological destruction of microorganisms in foods; methods for microbiological examination of food stuffs; and public health and sanitation bacteriology.
Mr. Speck

FS 506 Advanced Food Microbiology 3 (0-9) f
Prerequisite: FS 505 or consent of instructor

Ecology and physiology of microorganisms important in the manufacture and deterioration of various classes of foods; the identification of representative species of such microorganisms isolated from natural environments; principles of nutrition, symbiosis and bacteriophage activity in culture maintenance for food production.
Mr. Speck

FS 511 Food Science Seminar 1 (1-0) s

Prerequisite: Senior or graduate standing and consent of instructor
A review and discussion of scientific articles, progress reports in research and special problems of interest.
Graduate Staff

FS 512 Special Problems in Food Science 1-3 (arranged) f s

Prerequisite: Senior or graduate standing and consent of instructor
Analysis of scientific, engineering and economic problems of current interest in foods. The scientific appraisal and solution of a selected problem. The problems are designed to provide training and experience in research.
Graduate Staff

FS 521, 522 Technology of Fruit and Vegetable Products 3 (2-2) f s
Prerequisite: BO 412

Comprehensive treatment of principles and methods of preservation of fruits and vegetables, including studies of commercial plant operations, and visits to food processing plants.
Mr. Hoover

Courses for Graduates Only

FS 601 Seminar in Food Science 1 (1-0) f s
Preparation and presentation of scientific papers, progress reports of research and special topics of interest in foods.
Graduate Staff

FS 602 Special Research Problems in Food Science Credits by arrangement
Directed research in a specialized phase of food science designed to provide experience in research methodology and philosophy.
Graduate Staff

FS 603 Research in Food Science Credits by arrangement
Original research preparatory to the thesis for the Master of Science or Doctor of Philosophy degrees.
Graduate Staff

Forestry

Courses for Undergraduates

- FOR 52 Small Private Forest Management** **3 (2-3) s**
 Growing, harvesting and marketing timber products under small private ownership conditions.
 For Agricultural Institute students. **Mr. Dyson**
- FOR 101 Introduction to Forestry** **1 (1-0) f**
 The profession of forestry, its scope and opportunities; conservation of natural resources.
Mr. Preston
- FOR 201 Wood Structure and Properties** **3 (2-3) s**
 Identification, structure, properties and uses of woods of economic importance in the United States. This course is a condensation of FOR 202, 203 with less emphasis. **Mr. Carter**
- FOR 202 Wood Structure and Properties I** **3 (1-4) f**
 The macro- and micro-structure of wood is emphasized in this introductory course. As related to wood structure, the physical properties and uses of several commercially important coniferous and deciduous woods are also studied. The techniques of hand lens and microscope identification of wood are covered. **Mr. Thomas**
- FOR 203 Wood Structure and Properties II** **3 (2-3) s**
 Prerequisites: FOR 202, PY 211
 Physical properties of wood, specific gravity relationships, wood in relation to moisture, wood in relation to heat, sound, light, electricity, combustion; introduction to strength properties of wood. **Mr. Rice**
- FOR s204 Silviculture** **3 credits**
 Sophomore Summer Camp
 Growth and development of forest stands; reproduction counts, type mapping thinning, and weeding; establishment and measurement of sample plots. **Staff**
- FOR s205 Wood Machining Practicum** **1 credit**
 Sophomore Summer Practicum
 Prerequisite: FOR 203
 Laboratory exercises in machining of wood. **Staff**
- FOR s206 Wood Drying Practicum** **1 credit**
 Sophomore Summer Practicum
 Laboratory exercises in wood drying. **Staff**
- FOR s207 Gluing Practicum** **1 credit**
 Sophomore Summer Practicum
 Laboratory exercises in gluing wood and preparation of particle board. **Staff**
- FOR s208 Wood Finishing Practicum** **1 credit**
 Sophomore Summer Practicum
 Laboratory exercises in wood finishing. **Staff**
- FOR s209 Plant Inspections** **1 credit**
 Sophomore Summer Practicum
 Inspection of wood-using plants. **Staff**
- FOR s210 Mensuration Practicum** **2 credits**
 Sophomore Summer Practicum
 Laboratory exercises in mensuration. **Staff**

- FOR s211 Logging and Milling Practicum** **2 credits**
 Sophomore Summer Practicum
 Practical exercises in logging and milling. Staff
- FOR s212 Graphic Methods** **1 credit**
 Sophomore Summer Practicum
 Laboratory exercises in appropriate graphic methods. Staff
- FOR 219 Forest Economy and Its Operation** **3 (2-2) s**
 Multiple use concept of forestry; economic principles underlying production; investment problems; factors which influence demand for forest products. Mr. Dyson
- FOR s264 Protection** **3 credits**
 Sophomore Summer Camp
 Protection practices relating to fire, insects and disease. Staff
- FOR s274 Mapping and Mensuration** **3 credits**
 Sophomore Summer Camp
 Collection of field data for stand and yield tables, stem analysis, timber surveys, basic mensuration, forest mapping. Staff
- FOR s284 Utilization** **1 credit**
 Sophomore Summer Camp
 Trips to wood industries; expositions on manufacturing processes.
- FOR 301 Wood Processes I** **4 (3-2) f**
 Prerequisites: FOR 203, 209
 The processes of drying, gluing and finishing wood. Processes of reconstituting wood as fiberboard, hardboard and particle board. Basic requirements of various procedures and materials. Mr. Carter
- FOR 302 Wood Processes II** **4 (3-2) s**
 Prerequisites: FOR 203, 209
 The theories and techniques of converting raw wood into usable products by milling, veneering and chipping round wood. Included also is the processing of finished lumber, dimension stock, plywood and other wood products. Mr. Carter
- FOR 321, 322 Pulp and Paper Technology** **3 (3-0) f s**
 Brief survey of the physical and chemical characteristics of wood and cellulose. Chemistry and technology of the major mechanical, chemical and semi-chemical processes employed in the manufacture of pulp and paper. Mr. Hitchings
- FOR 342 Fiber Analysis** **3 (1-4) s**
 Fiber microscopy; the determination of fiber measurement, quality, variation and identity in pulpwood. Mr. Barefoot
- FOR 361, 362 Silvics** **3 (2-3) f s**
 Prerequisite: Summer Camp
 Site, soil and other environmental factors in relation to the establishment, growth, and development of seedlings, trees and timber stands; the influence of forest vegetation on site, ground water, and micro-climate. Messrs. Maki, Perry
- FOR 372 Mensuration** **3 (2-2) s**
 Prerequisite: FOR s274
 The measurement of timber, both standing and felled; log rules form factors, stem analysis; and growth; methods of making volume, growth, and stand tables; increment and yield studies; development of stand and yield tables from field data. Mr. Bryant
- FOR 401 Wood Preservation** **2 (1-3) s**
 Factors causing wood deterioration; preservative materials and treatments; wood by-products from mill and forest waste. Mr. Carter

FOR 403 Paper Process Analysis**3 (0-6) s**

Manufacture of several types of papers with particular attention to stock preparation, sizing, filling and coloring. The finished products are tested physically and chemically and evaluated from the standpoint of quality and in comparison with the commercial products they are intended to duplicate.

Mr. Hitchings

FOR 404 Management Analysis**3 (1-6) s**

Application of management, logging, silvicultural and utilization practices on assigned areas. Each student must make a forest survey of an individual area and submit a record.

Messrs. Lammi, Miller

FOR 405 Forest Inventory**3 (1-6) s**

Timber estimating and data compilation.

Messrs. Lammi, Miller

FOR 411, 412 Pulp and Paper Unit Processes**3 (3-0) f s**

Principles of operation, construction and design of process equipment employed in the pulp and paper industry.

Mr. Cook

FOR 413 Paper Properties and Additives**4 (1-9) f**

Physical, chemical and microscopical examination of experimental and commercial papers and evaluation of the results in terms of the utility of the product tested; evaluation and identification of dyestuffs and the development of color formulas.

Messrs. Cook, Landes

FOR 422 Forest Products**3 (3-0) f**

Prerequisites: FOR 201, CH 203 or 426

The source and method of obtaining derived and manufactured forest products other than lumber.

Mr. Carter

FOR 423 Logging and Milling**3 (2-3) f**

Timber harvesting and transportation methods, equipment and costs; safety and supervision; manufacturing methods with; log and lumber grades.

Mr. Barefoot

FOR 432 Merchandising Forest Products**2 (2-0) f**

Principles and practices in the distribution and marketing of the products obtained from wood; organization and operation of retail, concentration and wholesale outlets.

Mr. Carter

FOR 434 Wood Operations I**3 (2-3) f**

Prerequisites: FOR 301, 302

Organization of manufacturing plans producing wood products including company organization, plant layout, production planning and control. Analysis of typical manufacturing operations in terms of processes, equipment, size and product specification. The organization and operation of Wood Products markets.

Mr. Barefoot

FOR 435 Wood Operations II**3 (2-3) s**

Prerequisites: FOR 301, 302

The application of the techniques of operations analysis to management decision making in the wood products field. Choice of products to manufacture. Allocation of production resources. Development of product distribution systems.

Mr. Barefoot

FOR 441 Design of Wood Structures**3 (2-3) s**

Prerequisite: EM 341

Strength and related properties of commercial woods; standard A.S.T.M. strength tests; toughness; timber fastening; design of columns; simple, laminated and box beams; trusses and arches.

Mr. Thomas

FOR 444 Introduction to Quality Control**3 (2-3) s**

Prerequisite: ST 361

A study of methods used to control quality of manufactured wood products. Control charts for variable and attributes. Acceptance sampling techniques.

Mr. Barefoot

FOR 461 Paper Converting**1 (1-0) s**

A survey of the principal processes by which paper and paper board are fabricated into the utilitarian products of everyday use.

Mr. Landes

FOR 462 Artificial Forestation**2 (1-3) s**

Production collection, extraction, and storage of forest tree seeds; nursery practice; field methods of planting.

Mr. Maki

FOR 463 Plant Inspections**1 (0-3) s**

One week inspection trips covering representative manufactures of pulp and paper and paper-making equipment.

Staff

FOR 471 Pulping Process Analysis**4 (1-9) f**

Preparation and evaluation of the several types of wood pulp. The influence of the various pulping and bleaching variables on pulp quality and studied experimentally and these data evaluated critically.

Mr. Hitchings

FOR 481 Pulping Processes and Products**2 (2-0) s**

Prerequisites: FOR 202, CH 203 or 221

Fiber manufacturing process and equipment; wall, insulation and container board products; manufacture of roofing felts; pulp products manufacturing; resin treated and specialty products, lignin and wood sugar products.

Mr. Landes

FOR 482 Pulp and Paper Mill Management**2 (2-0) s**

A survey of the economics of the pulp and paper industry is followed by a study of the work of the several departments of a paper mill organization and the functions of the executives who administer them.

Mr. Cook

FOR 491 Senior Problems**Credits arranged**

Problems selected with faculty approval in the areas of management or technology.

Staff

FOR 492 Senior Problems**Credits arranged**

Problems selected with faculty approval in the areas of management or technology.

Staff

Courses for Graduates and Advanced Undergraduates

FOR 501 Forest Valuation**3 (2-2) f**

Prerequisite: FOR 372

The theory and techniques of valuation of forest land, timber stands, and forest practices as investments and for appraisals of damage. Risks and hazards in forestry as they apply to forest investments, forest insurance, and forest taxation.

Mr. Bryant

FOR 511 Silviculture**3 (3-0) s**

Prerequisites: FOR 361, BO 421

The principle and application of intermediate and reproductive methods of cutting; controlled burning, silvicides and other methods of hardwood control. The application of silvicultural methods in the forests of the United States.

Mr. Miller

FOR 512 Forest Economics**3 (3-0) f**

Prerequisites: FOR 372, EC 301

Economics and social value of forests; supply of, and demands for forest products; land use; forestry as a private and a public enterprise; economics of the forest industries.

Mr. Lammi

FOR 513 Tropical Woods**2 (1-3) s**

Prerequisites: FOR 203, 301

Structure, identification, properties, characteristics and use of tropical woods, especially those used in plywood and furniture.

Mr. Barefoot

FOR 521, 522 Chemistry of Wood and Wood Products

Prerequisites: FOR 202, CH 215, 426, PY 212

3 (2-3) f sFundamental chemistry and physics of wood and wood components; pulping principles; electrical and thermal properties.
Mr. Stamm**FOR 531 Forest Management**

Prerequisite: FOR 372; Corequisite: FOR 511

3 (2-3) fManagement of timber lands for economic returns; the normal forest taken as the ideal; the application of regulation methods to the forest.
Mr. Bryant**FOR 532 Forest Management**

Continuation of FOR 531

3 (3-0) s**FOR 533 Advanced Wood Structure and Identification**

Prerequisite: FOR 202

2 (1-3) fAdvanced microscopic identification of the commercial woods of the United States and some tropical woods; microscopic anatomical features and laboratory techniques.
Mr. Barefoot**FOR 553 Forest Photogrammetry**

Prerequisites: FOR 372, 531

2 (1-3) sInterpretation of aerial photographs, determination of density of timber stands and area mapping.
Mr. Bryant**FOR 571 Advanced Forest Mensuration**

Prerequisites: ST 311, FOR 372

3 (2-2) fStudy of cyclical variation in growth of individual trees and stands; analysis of stand structures in even-aged versus all-age stands; general concepts of growing stock levels on yields; evaluation of growth prediction methods.
Mr. Bryant**FOR 572 Forest Policy**

Prerequisites: EC 201, FOR 219; Corequisite: FOR 531

3 (3-0) fAnalysis of the forest policies of the United States and selected foreign countries; criteria for their evaluation; appraisal of current policies and alternatives.
Mr. Lammi**FOR 573 Methods of Research in Forestry**

Prerequisite: Senior or graduate standing

Credits arrangedResearch procedures, problem outlines, presentation of results; consideration of selected studies by forest research organizations; sample plot technique.
Staff**FOR 591 Forestry Problems**

Prerequisite: Senior or graduate standing

Credits arrangedAssigned or selected problems in the field of silviculture, logging, lumber manufacturing, pulp technology, or forest management.
Staff**Courses for Graduates Only****FOR 601 Advanced Forest Management Problems**

Prerequisite: Graduate standing

Credits arrangedDirected studies in forest management.
Graduate Staff**FOR 603 Technology of Wood Adhesives**

Prerequisites: CH 425, 426; FOR 433

3 (3-0) f or sThe fundamentals of adhesives as applied to wood-to-wood and wood-to-metal bonding. Technology of adhesives. Preparation and use of organic adhesives. Testing of adhesives and evaluation of quality of adhesives and bonded joints.
Mr. Hart

FOR 604 Timber Physics**3 (3-0) f or s**

Prerequisite: FOR 441

Density, specific gravity and moisture content variation affecting physical properties; physics of drying at high and low temperatures; thermal, sound, light and electrical properties of wood. Messrs. Ellwood, Hart

FOR 605 Design and Control of Wood Processes**3 (3-0) f or s**

Prerequisite: FOR 604

Design and operational control of equipment for processing wood.

Mr. Ellwood

FOR 606 Wood Process Analysis**3 (3-0) f**

Prerequisites: FOR 512, 604

Analysis of wood processes through the solution of comprehensive problems involving the physics of temperature and moisture relations. Mr. Ellwood

FOR 607 Advanced Quality Control**3 (3-0) s**

Prerequisites: FOR 606, ST 515

Advanced statistical quality control as applied to wood processing.

Mr. Hart

FOR 611 Forest Genetics**3 (3-0) f or s**

Prerequisites: GN 411 and permission of instructor

Application of genetic principles to silviculture, management and pulp utilization. Emphasis is on variations in wild populations, on the bases for selection of desirable qualities and on fundamentals of controlled breeding. Mr. Zobel

FOR 621 Advanced Wood Technology Problems**Credits arranged**

Prerequisite: Graduate standing

Specific forestry problems that will furnish material for a thesis.

Graduate Staff

FOR 671 Problems in Research**Credits arranged**

Prerequisite: Graduate standing

Specific forestry problems that will furnish material for a thesis.

Graduate Staff

FOR 681 Graduate Seminar**1 (1-0) f or s**

Prerequisite: Graduate standing in Forestry or closely allied fields

Presentation and discussion of progress reports on research, special problems and outstanding publications in forestry and related fields. Graduate Staff

Genetics

Courses for Undergraduates

GN 301 Genetics in Human Affairs**3 (3-0) f s**

Fundamental principles of genetics will be presented at a level not requiring prerequisite courses in biological sciences but sufficient for an understanding of the relation of genetics to society and technology. A survey will be given of current knowledge of inheritance of human traits. Mr. Bostian

Courses for Advanced Undergraduates

GN 411 The Principles of Genetics**3 (2-2) f**

Prerequisites: BO 103, ZO 103

An introductory course. The physical basis of inheritance; genes as units of heredity and development; qualitative and quantitative aspects of genetic variation. Mr. Bostian

Courses for Graduates and Advanced Undergraduates

- GN 503 (ANS 503) Genetic Improvement of Livestock** 3 (2-3) f s
- GN 512 Genetics** 4 (3-2) f
Prerequisite: GN 411
Intended for students desiring more thorough and detailed training in fundamental genetics with some attention to physiological aspects. (Students conduct individual laboratory problems.)
Mr. Grosch
- GN 513 Cytogenetics I** 4 (3-2) f
Prerequisite: GN 512 or with consent of instructor
The chromosomes as vehicles of heredity. Mitosis and meiosis as bases of genetic stability and recombination. Structural and numerical aberrations and their effect upon the breeding systems of plants and animals. Interspecific hybrids and polyploids. Lectures and laboratory.
Mr. Gerstel
- GN 520 (PO 520) Poultry Breeding** 3 (3-0) f
- GN 532 Biological Effects of Radiation** 3 (3-0) s
Prerequisite: ZO 103 or with consent of instructor
Qualitative and quantitative effects of radiations (other than the visible spectrum) on biological systems, to include both morphological and physiological aspects in a consideration of genetics, cytology, histology, and morphogenesis.
Mr. Grosch
- GN 540 Evolution** 3 (3-0) f
Prerequisite: GN 411
The facts and theories of evolution in plants and animals. The causes and consequences of organic diversity.
(Offered in 1962-63 and alternate years)
Mr. Smith
- GN 541 (CS 541, HS 541) Plant Breeding Methods**
Prerequisites: GN 512, and either ST 511 or consent of instructor
Principles and methods of plant breeding.
Staff
- GN 542 (CS 542 or HS 542) Plant Breeding Field Procedures** 2 (0-4)
Summer session
- GN 550 Experimental Evolution** 3 (3-0) s
Prerequisites: GN 512 and either GN 513 or consent of instructor
Experimental evolution deals primarily with micro-evolutionary processes examined at the inter- and intra-specific population level. A review of the results from experimental population studies and analyses of natural populations concerning variation patterns and adaptation, natural selection, polymorphism, introgression, population breeding structure, isolating mechanism, etc., is made and interpreted in relation to Neo-Darwinian concepts of the origin of species.
(Offered in 1963-64 and alternate years.)
Mr. Mettler

Courses for Graduates Only

- GN 602 (ANS 602) Population Genetics in Animal Improvement** 3 (3-0) f
- GN 607 (PP 607) Genetics of Fungi** 3 (3-0) f
Prerequisite: GN 513 or graduate standing in Botany and Zoology
Review of major contributions in fungus genetics with emphasis on principles and theories that have evolved in recent developments.
(Offered in 1962-63 and alternate years.)
Mr. Nelson
- GN 611 (FOR 611) Forest Genetics** 3 (3-0) f s

GN 614 Cytogenetics II**3 (0-6) s**

Prerequisite: GN 513 or consent of instructor

Laboratory and discussion. The cytogenetic analysis of natural and experimental material, plant and animal. Assigned exercises and student projects. The course provides the student with a working knowledge of cytogenetic procedure.

(Offered in 1963-64 and alternate years.)

Mr. Smith

GN 626 (ST 626) Statistical Concepts in Genetics**3 (3-0) s****GN 631 Mathematical Genetics****3 (3-0) f**

Prerequisites: GN 512 and ST 511 or consent of instructor

History of mathematical biology, role of mathematical concepts in the development of genetic science, theory of genetic recombination, dynamics of genetic population.

(Offered in 1963-64 and alternate years.)

Mr. Kojima

GN 633 Physiological Genetics**3 (3-0) s**

Prerequisite: GN 512

Recent advances in physiological genetics. Attention will be directed to literature on the nature and action of genes, and to the interaction of heredity and environment in the expression of the characteristics of organisms.

Mr. Grosch

GN 641 Colloquium in Genetics**2 (2-0) f s**

Prerequisites: Graduate standing and consent of instructor

Informal group discussion of prepared topics assigned by instructor.

Graduate Staff

GN 651 Seminar**1 (1-0) f s**

Prerequisite: Graduate standing

GN 661 Research**Arranged**

Prerequisite: Graduate standing

Original research related to the student's thesis problem. A maximum of six credits for the master's degree; by arrangement for the doctorate.

Graduate Staff

GN 671 Special Problems in Genetics**1 to 3 f s**

Prerequisites: Advanced graduate standing and consent of instructor

Special topics designed for additional experience and research training.

Graduate Staff

Geological Engineering

Courses for Undergraduates

MIG 101 Earth Science**3 (3-0) s**

Elective. Not to be taken after MIG 120

Introductory course in General Geology; changes in the earth, and underlying physical and life processes.

MIG 120 Physical Geology**3 (2-3) f s**

Dynamic processes acting on and within the earth; materials and makeup of the earth's crust; emphasis on engineering and agricultural applications in the southeast. Lectures, laboratories and field trips.

MIG 220 Physical-Historical Geology**4 (3-3) f**

Prerequisite: CH 101

A broad introductory survey of earth materials, processes, and history. Common minerals and rocks. Effect of solar, gravitational, chemical, and internal thermal energy in transforming crustal constitution, structure, position, and surface form. Measurement and subdivision of geologic time. The time scale. Geosynclinal and tectonic cycles. Typical major geologic events in North America. Evolution of the main fossil groups.

MIG 222 Historical Geology**3 (2-3) f**

Prerequisite: MIG 120

Chronologic account of the geological events during the development of the earth's crust, mainly in North America. Evolution and environmental significance of the principal fossil animal and plant groups.

MIG 323 Paleontology**3 (2-3) f s**

Prerequisite: MIG 220 or 222

Study of fossil life forms, with major emphasis on classification and structure of the invertebrate animals and their application to problems of correlation of strata. Lectures, laboratories and field trips.

MIG 331 Crystallography and Optical Microscopy**4 (2-4) f**

Prerequisites: CH 103 and PY 202

The crystalline state, elements of morphologic crystallography, space lattice structure, and crystal chemistry. Crystal symmetry, systems, classes, and common forms. Atomic and ionic packing, coordination number, polymorphism, isomorphism, twinning, zoning, exsolution and replacement effects. Techniques and underlying optical theory for identifying minerals with the polarizing microscope. Determination of index of refraction and birefringence; isotropic, uniaxial, or biaxial character; optic angle, sign, and orientation. Adjunct apparatus for statistical and petrographic studies.

MIG 351 Tectonic Structures**3 (2-3) f**

Prerequisite: MIG 220

Application of the principles of mechanics to an understanding of rock deformation. Analysis of fracture, solid flow, and fluid flow structures imposed on igneous, sedimentary and metamorphic rock masses by internal crustal forces and gravitational movements. Stress-strain relations of rocks and minerals under surface conditions, and the modification of behavior which result from pore solutions and increase of confining pressure, temperature, and time.

MIG 415 Mineral Exploration and Evaluation**3 (2-3) s**

Prerequisites: MIG 440, MIG 452

Application of the principles of geology, geophysics, and geochemistry to the discovery and evaluation of mineral deposits. Design of mineral exploration and development programs based on knowledge of the unique thermodynamic, geochemical, and tectonic features that control mineral formation and concentrations in well known mining districts, especially those yielding ferrous, base, and precious metals. Review of economic and technological factors governing the value of mineral deposits.

MIG 440 Endogenic Materials and Processes**4 (3-3) s**

Prerequisites: MIG 220, MIG 331

Minerals, rocks, and mineral deposits that are formed at high temperatures and pressures by crystallization or solidification of molten magma, or by solid state recrystallization of older rocks. Application of principles of thermodynamics and of phase-rule chemistry, and the results of modern high pressure-temperature laboratory research on the stability fields of crystalline phases, to an understanding of igneous and metamorphic rocks. Identification, classification, occurrence, origin, and economic value of the principal igneous and metamorphic rocks.

MIG 452 Exogenic Materials and Processes**4 (3-3) f**

Prerequisites: MIG 220, MIG 331

Identification, classification, geologic occurrence, origin, and economic value of minerals, rocks, and mineral deposits formed by physical, chemical, and biological processes at low temperatures and pressures at and near the earth's surface. Hydrodynamics of sediment transport and deposition, settling velocities and size sorting, chemical and biochemical precipitation from aqueous solutions. Principles of division of stratified terranes into natural units, correlation of strata, identification of depositional environments, and facies analysis.

MIG 461 Engineering Geology**3 (3-0) f**

Prerequisite: MIG 120 or 220

The application of geologic principles to engineering practice; analysis of geologic factors and processes affecting specific engineering projects.

MIG 462 Geological Surveying**3 (1-6) s**

Prerequisites: MIG 351, MIG 440, MIG 452

Methods of field observation and use of geologic surveying instruments in surface and underground work; representation of geologic features by maps, sections and diagrams. Lectures, laboratories and field work.

MIG 465 Geological Field Procedures**6 Summer**

Prerequisite: MIG 351 or special permission

A six week summer field course. Practical field procedures and instruments commonly used to procure geologic data for evaluating mineral deposits, solving engineering problems involving earth materials, and drawing scientific conclusions. Observation of geologic phenomena in their natural setting. Large and intermediate scale geologic mapping of surface features and large scale mapping underground in mine workings.

MIG 472 Elements of Mining Engineering**3 (2-3) f**

Prerequisites: MIG 220 and at least Junior standing in Geological Engineering

Introduction to mining; surface and underground methods of development and production; explosives, drilling and blasting; ore loading, transport, and hoisting; drainage and ventilation; mine surveying and sampling; fire assaying; mining law, organization, administration, and safety. Lectures, laboratory and field inspections.

MIG 481, 482 Senior Seminar**1 (1-0) f s**

Reports and discussion of current professional topics.

Courses for Graduates and Advanced Undergraduates

MIG 522 Petroleum Geology**3 (3-0) s**

Prerequisites: MIG 330, PY 202

Properties, origin and modes of occurrence of petroleum and natural gas. Geologic and economic features of the principal oil and gas fields, mainly in the United States.

Mr. Leith

MIG 552 Exploratory Geophysics**3 (2-3) s**

Prerequisites: MIG 351, PY 202

Fundamental principles underlying all geophysical methods; procedure and instruments involved in gravitational, magnetic, seismic, electrical, and other methods of studying geological structures and conditions. Spontaneous potential, resistivity, radioactivity, temperature, and other geophysical logging methods. Study of applications and interpretations of results.

Mr. Leith

MIG 571, 572 Mining and Mineral Dressing**3 (2-3) f s**

Prerequisite: MIG 472

Principles of the mineral industry; mining laws, prospecting, sampling, development, drilling, blasting, handling, ventilation and safety; administration; surveying, assaying; preparation, beneficiation and marketing.

Staff

MIG 581 Geomorphology**3 (2-3) f**

Prerequisite: MIG 452

A systematic study of land forms and their relations to processes, stages of development, and adjustment to underlying structure. Lectures, map interpretations, and field trips.

Mr. Brown

Courses for Graduates Only

MIG 611, 612 Advanced Economic Geology**3 (3-0) f s**

Prerequisites: MIG 440 and 452

Detailed study of the origin and occurrence of specific mineral deposits. Regional correlations.

Graduate Staff

- MIG 632 Microscopic Determination of Opaque Minerals** 3 (0-6) s
 Prerequisite: MIG 331
 Identification of metallic, opaque minerals in polished sections by physical properties, etch reactions and microchemical tests. Laboratories.
 Mr. Brown
- MIG 642 Advanced Petrography** 3 (1-4) s
 Prerequisites: MIG 331 and 440
 Application of the petrographic microscope to the systematic study of the composition and origin of rocks; emphasis on igneous and metamorphic rocks.
 Mr. Parker
- MIG 681, 682 Seminar** 1 (1-0) f s
 Prerequisite: Graduate standing
 Scientific articles, progress reports and special problems of interest to geologists and geological engineers discussed.
 Graduate Staff
- MIG 691 Geological Research** 3 or 6
 Prerequisite: Permission of the instructor
 Lectures, reading assignments, and reports; special work in Geology to meet the needs and interests of the students. Thesis problems.
 Graduate Staff

History and Political Science

Courses in History for Undergraduates

- HI 201 The Ancient World** 2 (2-0) f
 A history of ancient times from the rise of civilization in Egypt and Babylonia to the decline of Rome in the fifth century. Emphasis is placed upon the evolution of cultures and civilizations, and upon the development of art, science, literature, and philosophy.
- HI 202 The Medieval World** 2 (2-0) s
 The political, economic, social and cultural developments from the decline of the Roman Empire in the West to the emergence of the modern period.
- HI 205 The Modern Western World** 3 (3-0) f s
 A history of major movements in the Western World from the Renaissance to the present.
- HI 225, 226 Modern Europe** 3 (3-0) f s
 A study of political, economic, social, intellectual, and international movements in Europe from the end of the Middle Ages to the present, with an introduction covering the medieval period. The course divides at 1789. The semesters may be taken separately.
- HI 245, 246 History of European Civilization** 3 (3-0) f s
 A history of European civilization from the Golden Age of Greece to the present. Those social, political, and economic currents most influential in the formation of modern society are interwoven through the principal periods of cultural expression.
- HI 251 The United States Through Reconstruction** 3 (3-0) f
 A study of major historical developments in the growth of the American nation through the political phases of the Reconstruction period following the Civil War.
- HI 252 The United States Since Reconstruction** 3 (3-0) f s
 A study of major historical developments in the growth of the American nation beginning with economic and social phases of the Reconstruction period following the Civil War.
- HI 261 The United States in Western Civilization** 3 (3-0) f s
 An analysis of major developments in American history, with American history considered as part of the historical development of modern western civilization.

HI 301, 302 American Economic History**3 (3-0) f s**

A history of economic institutions and customs in the United States from the time of the transfer to the New World of European economic customs to the present. The course divides at 1860. The semesters may be taken separately.

HI 306 North Carolina History**2 (2-0) s**

The political, social and economic developments of North Carolina from colonial beginnings to the present.

HI 321 International Relations Since 1870**3 (3-0) f**

Prerequisite: HI 205 or an acceptable substitute

A study of the relations between the major countries of the world since 1870. In addition to the history of actual diplomatic relations, crises and settlements, attention is given to the causes of the various international crises. The course also includes study of the development of international organizations and the various points of conflict between international law and organization and the sovereignty of independent governments.

HI 351 British History**3 (3-0) f s**

A study of the political, social, economic, and cultural past of the British Isles from Roman times to the present. Emphasis is placed on the position of Britain in Europe, her colonial expansion, and on the connection between British and early American history.

HI 375 Latin America**3 (3-0) f**

Prerequisite: HI 205 or HI 252 or an acceptable substitute.

A study of the main currents of Latin American development from 1492 to the present day. The histories of leading countries including Brazil, Argentina, Colombia, Peru, and Mexico will be emphasized to show political, economic, and social trends as experienced during the conquest, colonization and independence, and, especially, the national period since 1830.

HI 401 Russian History**3 (3-0) f**

This course presents the major trends in Russian social, political, economic, and cultural history, with emphasis on the nineteenth and twentieth centuries. USSR policy is studied in relation to the full sweep of Russian history.

HI 402 Asia and the West**3 (3-0) s**

A history of Asia from the mid-nineteenth century to the present, with emphasis on Asian nationalism and conflict with the imperial powers.

HI 409 Colonial America**2 (2-0) f**

A study of the development of the American colonies in the seventeenth and eighteenth centuries, with special emphasis on European backgrounds.

HI 411 The American Revolution and the Confederation**3 (3-0) f**

The historical steps in the establishment of the United States as an independent nation. The conflict with Great Britain after 1763 leading to the declaring of independence; the military and diplomatic aspects of the war for American independence; the peace negotiations and the peace settlement of 1783; the domestic problems and foreign relations in the immediate post-war years; the establishment of government in the new nation terminating with the adoption of the Constitution of 1787.

HI 412 Recent United States History**3 (3-0) f s**

A study of the main currents in American political, economic, social, and diplomatic history of the twentieth century.

HI 422 History of Science**3 (3-0) s**

A study of the evolution of science from antiquity to the present with particular attention given to the impact of the scientific thought upon selected aspects of western civilization. The course provides a broad perspective of scientific progress and shows the interrelationship of science and major historical developments.

HI 433 American Agricultural History**3 (3-0) f**

Historical developments of agricultural activity in the United States from the transfer of western European agriculture to America to the present, with particular emphasis on the historical place and importance of agriculture in American life.

HI 461 The Soviet Union (Same as EC, PS 461)**3 (3-0) f**

Prerequisites: One semester of Economics and PS 201 or HI 205 or acceptable substitute

An analysis of the structure and function of the major Soviet economic, political and social institutions with special stress on the historical roots and continuity of Russian civilization. The course is presented in three equal phases of approximately five weeks each, covering Russian history, Soviet government, and Soviet economy.

Courses for Graduates and Advanced Undergraduates

HI 534 (Same as RS 534) Farmers' Movements**3 (3-0) s**

Prerequisite: Three credits in American history, American government, sociology or a related social science

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist revolt, the Farmer's Union, the Farm Bureau, the Equity societies, the Nonpartisan League, cooperative marketing, government programs and present problems.

Mr. Noblin

Courses in Political Science for Undergraduates

PS 201 The American Governmental System**3 (3-0) f s**

A study of the American federal system, integrating national and state government, with emphasis on constitutional principles, major governmental organs, governmental functions, and the politics and machinery of elections. Some attention is given to other types of political systems, and comparisons are made where relevant throughout the course.

PS 202 County and Municipal Government**3 (3-0) f s**

A survey of the organization and functions of the diverse rural and urban governments in the United States, emphasizing current problems and attempts to solve them.

PS 301 Comparative Political Systems**3 (3-0) f**

An analytical study of the federal and unitary systems and the presidential, parliamentary, and authoritarian plans of government, with special attention to the governments of the United Kingdom, France, Germany, Italy, and the Soviet Union.

PS 322 Contemporary World Politics**3 (3-0) f s**

A study of the pattern of international life, the instruments of national policy, the controls upon international behavior, and the major problems in international relations since World War II, including the development of the United Nations and various regional arrangements. Attention is given to the national interests and foreign policies of the states belonging to the Western and Soviet blocs, with emphasis on the position of the United States.

PS 376 Latin American Government and Politics**3 (3-0) s**

An analysis of Latin American governmental structures, political parties and ideologies, with emphasis on the period since 1910 in Mexico, Cuba, Bolivia, Chile, Argentina, Brazil, Peru, and Venezuela. Agrarian reform, social revolution, nationalism, and relations with the United States will be stressed within the Latin American political context.

PS 401 American Parties and Pressure Groups**3 (3-0) f s**

After a brief survey of those features of American government essential to an understanding of the political process, the course proceeds to examine the American electorate and public opinion and devotes its major attention to the nature, organization, and programs of pressure groups and political parties and to their efforts to direct opinion, gain control of government, and shape public policy. Special attention is given to party organization and pressure group activity at the governmental level and to recent proposals to improve the political party as an instrument of responsible government.

PS 406 Problems in State Government**3 (3-0) s**

Prerequisite: PS 201 or an acceptable substitute.

Selected problems arising from the operation of legislative, administrative, and judicial machinery. In addition to acquiring a comprehensive view of these problems each student will make an intensive study of a special phase of one of them. Special attention will be given to North Carolina.

PS 431 International Organization**3 (3-0) f**

Prerequisite: PS 201 or HI 205 or an acceptable substitute

A study of the evolving machinery and techniques of international organization in the present century with particular emphasis on recent developments. The actual operation of international organization will be illustrated by the study of selected current international problems.

PS 452 The Legislative Process**3 (3-0) s**

A study of the formulation of public policy from the institutional and behavioral viewpoints. Important current legislative problems at the congressional and state legislative levels will be selected and will serve as a basis for analyzing the legislative process.

PS 461 (Same as EC, HI 461) The Soviet Union**3 (3-0) f**

Courses for Graduates and Advanced Undergraduates

PS 501 Modern Political Theory**3 (3-0) f**

Prerequisite: PS 201 or HI 205 or an acceptable substitute.

A study of the state and its relationship to individuals and groups, approached through the reading of selected passages from the works of outstanding philosophers from the sixteenth century to the present.

Mr. Holtzman

PS 502 Public Administration**3 (3-0) f s**

Prerequisite: PS 201 or PS 202 or an acceptable substitute

A study of the principles and problems of administration in a democracy, including such matters as organization, personnel, fiscal management, relationship to the legislative and judicial functions, control of administrative agencies and policies and public relations.

Mr. Block

PS 510 (Same as EC 510) Public Finance**3 (3-0) f s**

Prerequisite: EC 201 or EC 205

A survey of the theories and practices of governmental taxing, spending, and borrowing, including intergovernmental relationships and administrative practices and problems.

Mr. Block

PS 512 American Constitutional Theory**3 (3-0) f s**

Prerequisite: PS 201 or an acceptable substitute

Basic constitutional doctrines, including fundamental law, judicial review, individual rights and political privileges, and national and state power. Special attention is given to the application of these doctrines to the regulation of business, agriculture, and labor and to the rights safeguarded by the First, Fifth, and Fourteenth Amendments to the Constitution.

Mr. Edsall

PS 610 Applied Principles of Public Administration**2-4 by arrangement f**

Prerequisite: PS 502 or an acceptable substitute.

An advanced course in administrative principles and methods. Students will perform individual or group research, under supervision, in specific administrative topics within the context of those public agencies which function in their respective fields of technology.

Mr. Block

PS 620 Problems in Political Science**2-4 by arrangement f**

Prerequisite: Advanced graduate standing

An independent advanced research course in selected problems of government and politics. The problems will be chosen in accordance with the needs and desires of the students registered for the course.

Graduate Staff

Horticultural Science

Courses for Undergraduates

HS 201 Principles of Horticulture

3 (3-0) f s

Attention will be directed to the basic principles involved in the application of these principles to the production, processing and utilization of fruit, vegetable, and ornamental crops. Attention will also be given to the economic importance and distribution of horticultural enterprises.

Mr. Gardner

HS 211, 212 Ornamental Plants

3 (1-5) f s

Prerequisite: BO 103

A study of principles and relationships, adaptation and usage of ornamental trees, shrubs, vines, and herbaceous plants.

Mr. Randall

HS 301 Plant Propagation

3 (2-2) s

Prerequisite: BO 103

A study of principles, methods, and practices in seedage, cutting, division, budding, grafting, and other methods of propagation. Consideration will also be given to scion and stock relationships and dormancy.

Mr. Randall

HS 342 Landscape Gardening

3 (2-3) f

The application of the principles of design to the landscaping of small properties and the selecting and planting of trees, shrubs, flowers, and lawn grasses. Students will be required to work out detailed landscape plans. Visitations will be made to outstanding homes and gardens.

Mr. Randall

HS 411 Nursery Management

3 (2-3) f

Prerequisites: BO 103 and SSC 200

The principles and practices involved in the production, management, and marketing of field-grown and container-grown nursery plants. Field trips will be taken.

Messrs. Cannon, Randall

HS 421 Fruit Production

3 (2-3) f

Prerequisites: BO 103 and SSC 200

A study of identification, adaptation, and methods of production and marketing of the principal tree and small fruits. Modern practices as related to selection of sites, nutritional requirements, management practices, and marketing procedures will be discussed.

Mr. Correll

HS 432 Vegetable Production

3 (2-3) s

Prerequisites: BO 103 and SSC 200

A study of the origin, importance, distribution, botanical relationships, and principles of production and marketing of the major vegetable crops.

Mr. Miller

HS 441 Floriculture I

3 (2-3) f

Prerequisites: BO 103 and SSC 200

The scope and importance of the commercial flower industry; the basic principles and practices involved in the production and marketing of flowers grown in the greenhouse and in the field.

Mr. Randall

HS 442 Floriculture II

3 (2-3) s

Prerequisites: BO 103 and SSC 200

Principles and methods of production of commercial flower crops in the greenhouse and in the field, including fertilization, moisture, temperature, and light relationships, insect and disease control, and marketing of cut flowers and pot plants.

Mr. Randall

HS 471 Arboriculture

3 (2-3) s

Prerequisites: BO 103 and SSC 200

A study of the principles and practices in the care and maintenance of ornamental trees and shrubs, such as pruning, fertilization, control of insects and diseases, and tree surgery. Field trips will be taken.

Mr. Cannon

HS 481 Breeding of Horticultural Plants**3 (2-2) f**

Prerequisite: GN 411

The application of genetic and other biological sciences to the improvement of horticultural crops. Messrs. Galletta, Henderson

Courses for Graduates and Advanced Undergraduates**HS 501 Research Principles****Credits by arrangement**

Prerequisite: Permission of instructor

Investigation of a problem in horticulture under the direction of the instructor. The students obtain practice in experimental techniques and procedures, critical review of literature and scientific writing. The problem may last one or two semesters. Credits will be determined by the nature of the problem, not to exceed a total of 4 hours. Graduate Staff

HS 541 (GN 541 or CS 541) Plant Breeding Methods**3 (3-0) f**

Prerequisite: GN 512; Recommended: ST 511

An advanced study of methods of plant breeding as related to principles and concepts of inheritance. Messrs. Haynes, Timothy

HS 542 (GN 542 or CS 542) Plant Breeding Field Procedures**2 (0-4) s**

Prerequisite: HS 541 or CS 541 or GN 541

In summer sessions

Laboratory and field study of the application of various plant breeding techniques and methods used in the improvement of economic plants. Messrs. Harvey, Haynes

HS 552 Growth of Horticultural Plants**3 (2-3) s**

Prerequisite: BO 421

A study of the effect of nutrient-elements, water, light, temperature and growth substances on horticultural plants. Mr. Schramm

HS 562 Post-Harvest Physiology**3 (3-0) s**

Prerequisite: BO 421

A study of chemical and physiological changes that occur during handling, transportation, and storage which affect the quality of horticultural crops. Consideration will be given to pre- and post-harvest conditions which influence these changes. Messrs. McCombs, Ballinger

HS 581 Senior Seminar**1 (1-0) f s**

Prerequisite: Senior standing in Horticulture

Presentation of scientific articles, progress reports in research, and special problems in horticulture and related fields. Mr. Gardner

Courses for Graduates Only**HS 621 Methods and Evaluation of Horticultural Research****3 (3-0) f**

Prerequisite: Graduate standing

Principles and methods of research in the field of horticulture and their application to the solution of current problems. Critical study and evaluation of scientific publications. Compilation, organization, and presentation of data. Mr. Cochran

HS 641 Research**Credits by arrangement**

Prerequisites: Graduate standing in Horticulture, consent of chairman

Original research on specific problems in fruit, vegetable, and ornamental crops. Thesis prepared should be worthy of publication. A maximum of 6 credits is allowed toward the Master of Science degree; no limitation on credits in doctorate program. Graduate Staff

HS 651 Seminar**1 (1-0) f s**

Prerequisite: Graduate standing

Presentation of scientific articles and special lectures. Students will be required to present one or more papers. Attendance of all graduate students is required. Graduate Staff

Industrial Arts

(See Education)

Industrial Education

(See Education)

Industrial Engineering

Courses for Undergraduates

IE 201 Industrial Engineering I

3 (3-0) f s

Prerequisite: Sophomore standing

An intensive and integrated study of the factory as a producing unit. History of manufacturing; organization structure; analysis of products; establishment and evaluation of processes; motion study; plant layout; production planning, scheduling, and control. Course will include solution of case problems and plant visits.

IE 202 Industrial Engineering II

3 (2-3) f s

Prerequisite: IE 201

Continuation of IE 201

IE 217 Machine Tools

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations, and student projects. Dimensional control, press forming, power cutting of metals including turning, milling, shaping and finishing. Selection and use of cutting tools, speeds, and feeds.

IE 218 Metal Forming

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations, and outside assignments. Survey of metals, pattern making, foundry practice, die and permanent mold casting, forging, gas cutting, gas and arc welding.

IE 224 Wood Working Equipment

3 (3-0) s

Classwork covers the description of cutting, sanding and assembly equipment, and an explanation of the type of operation done by each kind of equipment. The theory of cutting and sanding and cutterhead and saw design are covered.

IE 241 Welding Laboratory

1 (0-3) f s

Prerequisite: IE 218 or permission of instructor

A study of mechanization as applied to oxygen cutting, to the various types of shielded metal arcs and to gas welding. Jigs, fixtures, and positioners. Selection of welding process. Joint design and welding costs. Welds and stress distribution.

IE 269 Welding and Pipe Shopwork

1 (0-3) f s

Fundamentals of welding, both arc and gas, cutting equipment; safety in the use of equipment; application of low temperature and non-ferrous alloys; cutting, threading, reaming, and erection of iron pipe; copper tubes and fittings in heating and air conditioning work.

IE 301 Engineering Economy

3 (3-0) s

Prerequisite: Junior standing

Criteria and techniques of engineering economy for management decisions in relation to economy of design, economy of selection, and economy of operation. Study of effects of depreciation policies and machine replacement considerations. Emphasis on problem solving and development of detailed project economy studies.

IE 303 Industrial Engineering III**4 (3-3) f**

Prerequisite or corequisite: IE 202

An intensive and integrated course in methods of obtaining maximum effectiveness from the human resources used in the factory; principles of personnel administration, time study and rate setting, job evaluation and wage incentives, principles of control of labor and other costs.

IE 304 Industrial Engineering IV**4 (3-3) s**

Prerequisite: IE 303

Continuation of IE 303

IE 310 Industrial Safety**2 (2-0) f s**

A course in the causes and prevention of industrial accidents.

IE 322 Furniture Design and Construction**2 (0-6)**

An introduction to furniture drawing and construction. Detailed drawings and bills of material are made by the students from samples and from designers sketches. In construction, emphasis is placed upon satisfactory performance under variable atmospheric moisture, upon adequate strength and rigidity and upon low cost.

IE 326 Furniture Manufacture and Processing**4 (3-3) s**

Prerequisite: IE 322; Corequisites: IE 332 or IE 202, FOR 203

A study of the production methods of the Furniture Industry. Class work includes the production procedures from the yard through the machine, cabinet, finishing, upholstering, and shipping departments. The laboratory period is supplemented by visits to furniture plants. Particular attention is paid to production rates by departments, based on number of men and supervisors, the quality of product produced, and equipment used.

IE 327 Furniture Marketing**2 (2-0) f**

Study of basic factors bearing on selection of ideal location, equipment, and organization to serve a specific market with a specific factory. In addition to lectures, each student will select one project for which he will work out a solution for correlating product and market.

IE 328 Manufacturing Processes**3 (2-3) f**

Prerequisites: IE 217, IE 218

The basic processes of conversion of raw materials into producer and consumer goods. The cost reduction aspects of machine tools, jigs, and fixtures in volume productions. Study of industrial trends to meet needs of an expanding economy. Selected problems illustrating a wide variety of manufacturing situations.

IE 332 Motion and Time Study**4 (3-3) f s**

Prerequisite: Junior standing; Corequisite: EC 425

Principles and techniques of motion and time study, detailed study of charting operator movements; micromotion study. Predetermined time data and its applications; stopwatch time study with emphasis on rating, allowances and standard data theory and practice.

IE 334 Motion and Time Study**3 (0-3) f**

A course designed for non-industrial engineering students. Principles and techniques of motion and time study. Types and uses of predetermined time systems; stopwatch time study, principles and methods of rating, application of allowances and standard data.

IE 341 Furniture Plant Layout and Design**3 (2-3) f**

Prerequisite: IE 326

Problems in industrial plant design with special reference to furniture manufacture; building structures, equipment location, space utilization, layout for operation and control; allied topics in power utilization, light, heat, ventilation, and safety. Laboratory period.

IE 343 Plant Layout and Materials Handling**4 (3-3) s**

Prerequisites: IE 328, IE 332

Problems in plant arrangement and layout to obtain most effective utilization of men, materials, and machines as related to space and costs. Includes consideration of heat, light, ventilation, organization, control, material flow and handling, working conditions, safety, and other factors as they affect the most satisfactory layout of the plant.

IE 346 Furniture Design and Construction**2 (2-0) f**

Prerequisite: IE 322

Lecture and laboratory work on the design and construction of modern and period furniture. The course emphasizes construction features that are economical of labor and materials and are adaptable to mass production. The course covers the use of new engineering materials and their effect on furniture construction.

IE 350 Mechanisms and Machine Design**3 (2-3) s**

Prerequisites: IE 217, IE 218; Corequisite: EM 343

Fundamental principles of stress, strain, deflection of beams, combined stresses and strains, shafts, spring, gears, linkages, and cams, with emphasis on applications to jig and fixtures design and special tooling.

IE 401 Industrial Engineering Analysis**3 (3-0) f**

Prerequisites: IE 304, MA 301, MA 405, ST 362

An introductory course in some of the more recently developed operations research techniques; applications of analysis of variance, multiple correlation and other statistical methods, queueing theory, linear programming; graphical methods of solutions; information theory and servo-mechanisms in Industrial Engineering. A balance will be sought between theory and practical applications.

IE 402 Industrial Engineering Analysis**3 (3-0) s**

Prerequisite: IE 401

Continuation of IE 401

IE 404 Introduction to Tool Engineering**3 (2-3) s**

Prerequisites: IE 217, IE 218, EM 343

The development of effective production process design through a study of theory and characteristics of material removal and forming processes; with emphasis on quality requirements of the product, operations study, and the economics of tooling.

IE 408 Production Control**3 (2-3) f**

Prerequisite: Senior standing

Planning, scheduling, and dispatching of production in manufacturing operations; conversion of sales requirements into production orders; construction of production budgets and their relation to labor, materials and machines; laboratory project involving the development and operation of the production control system of a typical plant.

IE 420 Manufacturing Controls**3 (3-0) f**

Prerequisite: IE 301

Theory and methodology for developing and maintaining profitable manufacturing operations. Development of principles and procedures for control of materials, manpower, and costs. Special attention to production and inventory control, equipment utilization, wage classification and cost reduction programs.

IE 425 Sales and Distribution Methods**2 (2-0) s**

An analysis of the distribution of industrial and consumer products; the effect of increased productivity on sales and distribution channels; development and marketing of new products, merchandising and packaging. Sales training and sales engineering programs.

IE 430 Job Evaluation and Wage Administration**3 (2-3) s**

Prerequisite: Senior standing

Job analysis, classification and specification. Grading, ranking, factor comparison and point systems of job evaluation in determining equitable rates for job content. Wage surveys and merit rating. Utilization of time standards in design, installation, and operation of financial incentive plans. Comparison of various wage and salary plans. Effect of wage payment methods on industrial relations practices.

IE 443 Quality Control**3 (2-2) f**

Prerequisite: ST 361

Economic balance between cost of quality and value of quality, and techniques for accomplishing this balance. Organization for, specification and utilization of quality controls. Statistical theory and analyses as applied to sampling, control charts, tolerance determination, acceptance procedures and control of production.

IE 451, 452 Seminar**1 (1-0) f s**

A weekly meeting of senior students to assist the transition from a college environment to that of industry. Lectures, problems, presentation of papers, and outside speakers. Employment practices and procedures useful in job finding.

Courses for Graduates and Advanced Undergraduates

IE 515 Process Engineering**3 (3-0) f**

Prerequisites: IE 401, IE 443

The technical process of translating product design into a manufacturing program. The application of industrial engineering in the layout, tooling, methods, standards, costs, and control functions of manufacturing. Laboratory problems covering producer and consumer products.

IE 517 Automatic Processes**3(3-0) f**

Prerequisites: IE 401, IE 443

Principles and methods for automatic processing. The design of product, process, and controls. Economic, physical, and sociological effects of automation.

IE 521 Control Systems and Data Processing**3 (3-0) f**

Prerequisite: IE 401

This course is designed to train the student in the problems and techniques required for systematic control of the production process and the business enterprise. This includes training in the determination of control factors, the collection and recording of data, and the processing, evaluation, and use of data. The course will illustrate the applications and use of data processing equipment and information machines in industrial processes. Case problems will be used extensively.

IE 531 Quantitative Job Evaluation Methods**3 (3-0)**

Prerequisite: IE 401

A study of statistical and mathematical methods of testing and designing job evaluation plans. Ranking, contingency, and analysis of variance methods of testing plans and rating performance. Multiple regression and linear programming methods of designing plans.

IE 543 Standard Data**3 (3-0) s**

Prerequisites: ST 361 or ST 515, one course in motion and time study

Theory and practice in developing standard data from stopwatch observations and predetermined time data; methods of calculating standards from data; application of standard data in cost control, production planning and scheduling, and wage incentives.

IE 546 Advanced Quality Control**3 (3-0) s**

Prerequisite: IE 304 or ST 362

The statistical foundation of Quality Control are emphasized in this course as well as its economic implications. Mathematical derivation of most of the formulas used are given. Sampling techniques are treated extensively and many applications of this powerful technique are explained.

IE 551 Standard Costs for Manufacturing**3 (3-0) s**

Prerequisites: One course in accounting and one course in motion and time study

The development, application and use of standard costs as a management tool; use of industrial engineering techniques in establishing standard costs for labor, material, and overhead. Analysis of variances and setting of budgets. Measures of management performance.

IE 581 Project Work**2 to 6 f s**

Investigation and report on an assigned problem for students enrolled in the fifth-year curriculum in Industrial Engineering.

Courses for Graduates Only**IE 621 Inventory Control Methods****3 (3-0) f s**

Prerequisites: IE 402, IE 521, MA 511

A study of inventory policy with respect to reorder sizes, minimum points, and production schedules. Simple inventory models with restrictions, price breaks, price changes, analysis of slow-moving inventories. Introduction to the smoothing problem in continuous manufacturing. Applications of linear and dynamic programming and zero-sum game theory.

IE 651 Special Studies Industrial Engineering**Credits by arrangement**

Prerequisite: Graduate standing

The purpose of this course is to allow individual students or small groups of students to take on studies of special areas in Industrial Engineering which fit into their particular program and which may not be covered by existing industrial engineering graduate level courses. The work would be directed by a qualified staff member who has particular interest in the area covered by the problem. Such problems may require individual research and initiative in the application of industrial engineering training to new areas or fields.

IE 671 Seminar**1-1**

Seminar discussion of industrial engineering problems for graduate students. Case analyses and reports.

IE 691 Industrial Engineering Research**Credits by arrangement**

Graduate research in Industrial Engineering for thesis credit.

International Student Orientation**ISO 100 Introduction to the United States****1 credit f**

Required of all International students.

Landscape Architecture**Courses for Undergraduates****LA 301, 302 Landscape Design I, II****5 (3-9) f s**

Prerequisite: ARC 202

Required of third year students in Landscape Architecture

The landscape survey, investigation, and analysis. Use of first and second year design principles in specific landscape architecture problems. Covers the small scale design section in the complete third, fourth, and fifth year landscape cycle.

Messrs. Moore, Thurlow

LA 311, 312 Landscape Construction I, II**4 (2-6) f s**

Required of third year students in Landscape Architecture

The physical elements of landscape design, particularly earthwork, grading, quantities, construction, horizontal and vertical alignment of roads, and principles of statics. Lecture and laboratory work dealing with landscape structural analysis and materials, surface drainage and run-off, under-drainage; external lighting, water supply, waste, sanitation treatment, and fire protection.

Mr. Clarke

LA 401, 402 Landscape Design III, IV**6 (3-9) f s**

Prerequisite: LA 302

Required of students in Landscape Architecture

Regional survey investigation and analysis. Site planning and environmental design. Covers the medium scale design section in the complete third, fourth, and fifth year design cycle. (Correlation with LA Construction and LA Planting Design courses.)

Messrs. Moore, Thurlow

LA 421, 422 Planting Design**4 (2-6) f s**

Prerequisites: HS 212, LA 302, LA 312

Required of students in Landscape Architecture

The appraisal of plants as objects and their orderly arrangement for landscape effect. Techniques for recording design, specifications, and cost estimates. (Correlation with Landscape Design and Landscape Construction courses.)

Mr. Moore

LA 501, 502 Landscape Design V, VI**6,8 (4-8) f s**

Prerequisite: LA 402

Required of fifth year students in Landscape Architecture

Large scale landscape design and ecological planning, analysis, and investigation. At least one research or thesis project.

Messrs. Moore, Thurlow

LA 511 Landscape Construction III**4 (2-6) f**

Prerequisite: LA 312

Required of fifth year students in Landscape Architecture

Landscape structures, materials, and construction from LA 312. Office practice, procedure, ethics, and law; contracts, specifications, and bidding.

Mr. Thurlow

Mathematics

Courses for Undergraduates

MA 101 Algebra and Trigonometry**5 (4-2) f s**

Algebraic properties of real numbers; algebra of sets, mappings, functions and graphs. Properties of the complex number field. Applications to systems of equations both linear and quadratic. Other topics in algebra including inequalities, variation, binomial theorem, progressions, theory of equations and determinants. Trigonometric functions of a general angle, identities and multiple angle relations, inverse trigonometric functions, graphs, solution of triangles by logarithms and slide rule with emphasis on the laws of sines and cosines.

MA 102 Analytic Geometry and Calculus I**4 (3-2) f s**

Prerequisite: MA 101

Required of freshmen in the Schools of Engineering and Physical Sciences and Applied Mathematics. The first of three semesters of a unified course in analytic geometry and calculus. Topics include rectangular coordinates in the plane, graphs and equations of lines, algebraic curves, including the conic sections and others examined by general discussion methods. Also introduced are functions, limits, continuity, differentiation of algebraic functions, with applications of derivatives and differentials.

MA 111 Algebra and Trigonometry**4 (3-2) f s**

Properties of real numbers and basic postulates, algebra of sets, functions and graphs, complex numbers. Linear and quadratic systems of equations. Inequalities, variation, progressions, binomial theorem, theory of equations and determinants. Trigonometric functions, identities, slide rule and logarithm solution of right and oblique triangles.

(Students are to take either MA 101 or MA 111, but not both)

MA 112 Analytic Geometry and Calculus A**4 (3-2) f s**

Prerequisite: MA 111 or MA 101

A unified course, beginning with elementary ideas in analytic geometry and calculus, with the introduction of additional work in trigonometry where needed; rectangular and polar coordinate systems, fundamental locus problems, lines and conic sections, curve tracing, the derivative, with applications to geometry and elementary practical problems.

MA 122 Mathematics of Finance and Elementary Statistics

4 (3-2) f s

Prerequisite: MA 101 or MA 111

Simple and compound interest, annuities and their applications to amortization and sinking fund problems, installment buying, calculation of premiums of life annuities and life insurance, elementary statistics.

MA 201 Analytic Geometry and Calculus II

4 (3-2) f s

Prerequisite: MA 102 (with a minimum grade of C)

Required of sophomores in the Schools of Engineering and Physical Sciences and Applied Mathematics. The second of three semesters of a unified course in analytic geometry and calculus. Topics include indefinite and definite integrals of algebraic functions and their applications; differentiation of transcendental functions; polar coordinates, parametric equations, curvilinear motion and curvature; formal integration; integration by parts, substitution, and partial fractions.

MA 202 Analytic Geometry and Calculus III

4 (3-2) f s

Prerequisite: MA 201

Required of sophomores in the Schools of Engineering and Physical Sciences and Applied Mathematics. The third of three semesters of a unified course in analytic geometry and calculus. Topics include areas, volumes, lengths of curves, centroids, moments of inertia in rectangular and polar coordinates; approximate integration, improper integrals, indeterminate forms; infinite series and expansion of functions; solid analytic geometry and partial differentiation, multiple integrals in rectangular, cylindrical and spherical coordinates.

MA 211, 212 Analytic Geometry and Calculus B, C

3 (2-2) f s

Prerequisite: MA 112

An integrated course in the fundamentals of calculus, including formal differentiation and integration. Basic applications to geometry, rates, maxima and minima, areas, volumes, first and second moments and centroids are included. Additional topics from analytic geometry, not covered in MA 112, are introduced as needed as a basis for calculus.

MA 215 Introduction to Finite Mathematics

3 (3-0) f s

This course includes the following related topics: Elementary symbolic logic and truth tables, introduction to sets and subsets, other number systems, the partitioning of sets, introduction to probability theory and finite Stochastic processes, elementary linear programming and game theory.

MA 301 Differential Equations I

3 (3-0) f s

Prerequisite: MA 202

First order equations with variables separable; Euler's method of approximate solution; physical and geometrical applications. Linear equations of first order; applications. Linear equations of higher order with constant coefficients, solution by repeated linear first order equations, variation of parameters, undetermined coefficients, operators. Systems of equations; scaling variables, applications to networks and dynamical systems. Introduction to series-solutions; solutions by use of analog computer.

MA 302 Theory of Equations

3 (3-0) f

Prerequisite: MA 202

Algebraic equations; isolation of roots, numerical approximations to roots, the Graeffe method; application of approximation procedures to transcendental equations; systems of linear equations, determinants and introduction to matrix theory.

MA 303 Differential Equations and Infinite Series

4 (4-0) s

Prerequisite: MA 202 (Superior Student Program)

Infinite series and Taylor expansions. First order equations with variables separable; Euler's method of approximate solution; physical and geometrical applications. Linear equations of first order; applications. Linear equations of higher order with constant coefficients, solution by repeated linear first order equations, variation of parameters, undetermined coefficients, operators. Systems of equations; scaling variables, applications to networks and dynamical systems. Introduction to series-solutions; solutions by use of analog computer; non-linear differential equations; dimensional analysis.

(Students are to take either MA 301 or 303, but not both.)

- MA 335 Programming for Digital Computers** 1 (0-3) f s
 Prerequisites: MA 201 or MA 211 and junior standing
 Programming for digital computers. Construction and use of flow charts, use of a compiler, and assembly program and machine language instructions.

Courses for Advanced Undergraduates

- MA 401 Intermediate Differential Equations** 3 (3-0) f s
 Prerequisite: MA 301
 Theory of linear independence of solutions of linear differential equations, variation of parameters, superposition integral, simultaneous linear differential equations by transform methods, series solutions, special functions (Bessel, Legendre, etc.), orthogonal functions, and partial differential equations by separation of variables.

- MA 403 Fundamental Concepts of Algebra** 3 (3-0) f
 Prerequisite: MA 202 or MA 212
 Integers; integral domains; rational numbers; fields, rings, groups. Boolean algebra.

- MA 404 Fundamental Concepts of Geometry** 3 (3-0) s
 Prerequisite: MA 202 or MA 212
 Foundations of geometry; laws of logic; affine geometry; geometric transformations; homogeneous coordinates; comparison of Euclidean and non-Euclidean geometries.

- MA 405 Introduction to Determinants and Matrices** 3 (3-0) f s
 Prerequisite: MA 202 or MA 212
 Properties of determinants, theorems of Laplace and Jacobi, systems of linear equations. Elementary operations with matrices inverse, rank, characteristic roots and eigenvectors. Introduction to algebraic forms.

- MA 421 Theory of Probability I** 3 (3-0) f s
 Prerequisite: MA 301 or consent of department
 Definitions, discrete and continuous sample spaces, combinatorial analysis, Stirling's formula, simple occupancy and ordering problems, conditional probability, repeated trials, compound experiments, Bayes' theorem, binomial, Poisson and normal distributions, the probability integral, random variables, expectation.

- MA 433 History of Mathematics** 3 (3-0) s
 Prerequisite: MA 202 or MA 212
 Evolution of the number system; trends in the development of modern mathematics; lives and contributions of outstanding mathematicians.

- MA 441 Advanced Calculus I** 3 (3-0) f s
 Prerequisites: MA 301 and, preferably, a B-average in all mathematics courses
 Vectors, differential calculus of functions of several variables, vector differential calculus.

- MA 491 Reading in Honors Mathematics** 2 to 6
 Prerequisites: Membership in Honors Program and permission of department chairman
 This is a reading course for exceptionally able students at the junior and senior levels. It will follow the English precedent in university education so that the student will read in some area of advanced mathematics, will present a written report of his reading, and will stand an examination on it.

Courses for Graduates and Advanced Undergraduates

- MA 512 Advanced Calculus II** 3 (3-0) f s
 Prerequisite: MA 511
 Vector integral calculus, infinite series, integral calculus of functions of several variables.

MA 513 Advanced Calculus III

3 (3-0) f s

Prerequisite: MA 512

Functions of a complex variable, partial differential equations, Fourier series.

MA 514 Methods of Applied Mathematics

3 (3-0) s

Prerequisite: MA 512

Introduction to difference equations, integral equations, and calculus of variations.

MA 516 Principles of Mathematical Analysis

3 (3-0) f

Prerequisite: MA 512

The real number system, elements of set theory, limits, continuity, differentiation, Reimann-Stieltjes integration, sequences of functions, fundamentals of Lebesgue theory, topological and metric spaces.

MA 517 Introduction to Point-Set Topology

3 (3-0) s

Prerequisite: MA 516

A study of basic set-theoretic and general topological notions of modern mathematics. Topics include set theory and cardinal numbers, topological spaces, metric spaces, and elementary discussion of function spaces.

MA 523 Theory of Probability II

3 (3-0) s

Prerequisites: MA 405 and MA 522

Binomial, Poisson, and normal distributions, law of large numbers, recurrent events renewal theory, Markov chains. Characteristic function and distribution functions, simple stochastic processes. Introduction to game theory and linear programming.

MA 527 Numerical Analysis I

3 (3-0) f s

Prerequisite: MA 511

Numerical solution of equations, introduction to the theory of errors, finite-difference tables and the theory of interpolation, numerical integration, numerical differentiation, and elements of difference calculus.

MA 528 Numerical Analysis II

3 (3-0) s

Prerequisite: MA 527

Difference operators, summation procedures, numerical solution of ordinary differential equations, least-squares polynomial approximation, and Gaussian quadrature.

MA 532 Differential Equations II

3 (3-0) s

Prerequisite: MA 511

Phase-plane concepts; elementary critical points and stability theory; second order linear equations with variable coefficients; general linear autonomous systems; forced oscillations of linear systems; the method of Frobenius; Bessel, Legendre and hypergeometric functions; regular singular points; Sturm-Liouville systems; eigenvalue problems and generalized Fourier expansions; existence and uniqueness theorems.

MA 536 Logic for Digital Computers

3 (3-0) f

Prerequisite: MA 511

Introduction to logic and formal languages of digital computers, algorithms, compilers, and heuristic programming.

MA 537 Non-numeric Uses of Computers

3 (3-0) s

Prerequisite: MA 536

The use of computers in problems not involving numerical analysis. Formal differentiation and integration, algebraic models, combinatorics, theorem proving and decision making. Problems of mechanical translation. Special computers.

MA 555 (PY 555) Principles of Astrodynamics

3 (3-0)

Prerequisites: MA 511, either PY 401 or EM 312

The differential equations of motion in two-body problems and their integrals; orbit theory; integrals of the n-body problem; differential equations of motion of natural and artificial satellites and their approximate solutions.

Mr. Musen

Courses for Graduates Only

MA 602 Partial Differential Equations

3 (3-0) s

Prerequisite: MA 512

Ordinary differential equations in more than two variables, partial differential equations of the first order, partial differential equations of the second order, Laplace's equation, the wave equation, the diffusion equation.

MA 605 Non-Linear Differential Equations

3 (3-0) f

Prerequisites: MA 512, MA 532

Phase-plane and phase-space concepts; existence and uniqueness theorems; continuity, analytic and differentiability properties of solution; properties of linear systems; stability in non-linear systems; topological methods; perturbations of periodic solutions; asymptotic methods and resonance problems.

Mr. Struble

MA 608 Integral Equations

3 (3-0)

Alternate summers

Prerequisites: MA 512, MA 532

Linear Volterra integral equations of the first and second kinds. Relationship to linear differential initial value problems. Special Volterra equations of the convolution type. Singular Volterra equations. Linear Fredholm integral equations of the first and second kind. Basic theory. Symmetric kernels. Hilbert-Schmidt theory (generalizations).

Mr. Winton

MA 611 Complex Variable Theory and Applications I

3 (3-0) f

Prerequisite: MA 512

Elementary functions; analytic functions and Cauchy-Riemann equations; conformal mapping and applications; Taylor and Laurent series; contour integration and residue theory; the Schwarz-Christoffel transformation.

Mr. Bullock

MA 612 Complex Variable Theory and Applications II

3 (3-0) s

Prerequisite: MA 611

Conformal mapping and applications to flow phenomena; multiple-valued functions and Riemann surfaces; further applications of residue theory; analytic continuation; infinite series and asymptotic expansions; elliptic functions and other special functions in the complex domain; structure of functions.

Mr. Bullock

MA 615 Theory of Functions of a Real Variable I

Alternate years 3 (3-0) f

Prerequisite: MA 512

Sets and spaces; continuity and differentiability of real functions.

Mr. Harrington

MA 616 Theory of Functions of a Real Variable II

Alternate years 3 (3-0) s

Prerequisite: MA 615

Measure, measurable sets and functions, theory of Lebesgue integration.

Mr. Harrington

MA 621 Introduction to Modern Abstract Algebra

3 (3-0) f

Prerequisite: MA 512

A study of the abstract structure and properties of groups, rings and ideals, and fields.

Messrs. Nahikian, Park, Wahab

MA 622 Vector Spaces and Matrices

3 (3-0) s

Prerequisite: MA 511

A study of vector spaces and their relation to the theory of matrices. Matrix inversion, linear transformations, including similarity and orthogonal transformations, canonical forms. Properties of the characteristic and reduced characteristic function. Elementary divisors and functions of matrices. Applications to systems of differential equations.

Messrs. Nahikian, Park, Wahab

MA 625 Introduction to Differential Geometry

Alternate summers 3 (3-0)

Prerequisite: MA 512

Theory of curves and surfaces in 3-dimensional euclidean space with special reference to those properties invariant under the rigid body motions.

Messrs. Levine, Winton

MA 632 Operational Mathematics I

3 (3-0) f

Corequisite: MA 513 or MA 611

Laplace transform with theory and application to problems in ordinary and partial differential equations arising from engineering and physics problems; Fourier integral and Fourier transforms and applications.
Messrs. Cell, Harrington

MA 633 Operational Mathematics II

3 (3-0) s

Prerequisite: MA 632

Extended development of the Laplace and Fourier transforms and their uses in the solution of problems in ordinary and partial differential equations and in difference equations; Sturm-Liouville systems; advanced theory in ordinary and partial differential equations; other infinite and finite transforms and their applications.
Messrs. Cell, Harrington

MA 635 Mathematics of Computers

3 (3-0) s

Prerequisites: MA 528, MA 512, MA 335; Corequisite: MA 405 or MA 622

The development of methods for the solution of selected problems involving matrices; integral rational equations; ordinary and partial differential equations. Particular attention is paid to the question of convergence and stability; examples solved on the IBM 650.

MA 641 Calculus of Variations

Alternate summers 3 (3-0)

Prerequisite: MA 512

The simplest problem of the calculus of variations in detail; variable endpoints; isoperimetric problems; Hamilton's principle; least action principle; introduction to the theory of linear integral equations of the Volterra and Fredholm types.
Mr. Winton

MA 651 Expansion of Functions

Alternate summers 3 (3-0)

Prerequisites: MA 611, 633 or equivalent

Expansion of functions of one or more variables in Taylor series; asymptotic series; infinite products, partial fractions, continued fractions, series of orthogonal functions; applications in ordinary partial differential equations, difference equations and integral equations.

Messrs. Cell, Harrington

MA 655 Mathematics of Astrodynamics I

3 (3-0)

Prerequisite: MA 532 or MA 605

Two-body problem and its integrals, differential equations of the disturbed planetary motion, disturbing function (potential of the disturbed motion), literal and numerical methods for expansion of the disturbing function, perturbation of the first and second order, methods of Hansen, Hill, and Brouwer, theory of resonance.
Mr. Musen

MA 656 Mathematics of Astrodynamics II

3 (3-0)

Prerequisite: MA 655

Theories of artificial satellites, influence of the sun and moon on the motion of artificial satellites, orbit stability, lunar theories.
Mr. Musen

MA 661 Tensor Analysis I

3 (3-0) f

Prerequisite: MA 512

The basic theory, tensor algebra, tensor calculus; invariants of quadratic differential forms; covariant differentiation; geometric applications, Riemannian spaces; generalized vector analysis.
Mr. Levine

MA 662 Tensor Analysis II

3 (3-0) s

Prerequisite: MA 661

Continuation of MA 661. Physical applications; dynamics, Lagrange's equations, the geometry of dynamics, configuration spaces. Further applications to electromagnetic theory and elasticity.
Mr. Levine

MA 681 Special Topics in Analysis

up to 6 hours credit

MA 683 Special Topics in Algebra

up to 6 hours credit

MA 685 Special Topics in Numerical Analysis

up to 6 hours credit

MA 687 Special Topics in Geometry**up to 6 hours credit****MA 689 Special Topics in Applied Mathematics****up to 6 hours credit**

The above courses, MA 681-MA 689, afford opportunities for graduate students to study advanced topics in mathematics under the direction of members of the graduate staff. These will on occasion consist of one of several areas such as, for example, advanced theory of partial differential equations, topology, mathematics of plasticity or of viscoelasticity, mathematics of orbital mechanics.

MA 691 Research in Mathematics**Credits by arrangement**

Prerequisites: Graduate standing and approval of adviser
Individual research in the field of mathematics.

Mathematics and Science Education

(See Education)

Mechanical Engineering

Courses for Undergraduates

ME 101, ME 102 Engineering Graphics I, II**2 (1-3) f s**

Corequisite: MA 101 or MA 111

The objective of these courses is to teach the student the proper methods, techniques, and procedures of expression and interpreting data in this medium of communication. Theories and common practices are used to emphasize instrument practice, geometrical construction, freehand technical sketching, completion of prepared worksheets, sections, projections, auxiliary views, pictorial views, diagrammatic sketches and drawings using standard symbols, charts and graphs, and blueprint reading. Special emphasis will be placed upon visualization in the analysis and solution of geometrical magnitudes represented by points, lines, planes, and solids; intersection and development of flat and curved surfaces.

ME 301 Engineering Thermodynamics I**3 (3-0) f s**

Prerequisites: MA 202 and PY 201

A study of energy and energy transformations; the First and Second Laws applied to systems and to control volumes; thermodynamic properties of systems; property changes occurring resulting from changes in state; availability of energy.

ME 302 Engineering Thermodynamics II**3 (3-0) s**

Prerequisite: ME 301

A continuation of engineering thermodynamics I for Mechanical Engineering juniors. Thermodynamics of mixtures; chemical thermodynamics; thermodynamics of fluid flow; vapor and gas cycles; applications to compressors, internal combustion engines, steam and gas turbines, refrigeration.

ME 303 Engineering Thermodynamics III**3 (3-0) s**

Prerequisite: ME 301

A continuation of engineering thermodynamics I for non-Mechanical Engineering juniors. Thermodynamics of mixtures; thermodynamics of fluid flow; heat transfer; vapor and gas cycles and applications.

ME 304 Fundamentals of Heat Power**3 (3-0) f**

Prerequisite: PY 211

Energy and energy transformations, including a brief discussion of measurements of quantities involved. Properties of working substances, particularly steam. Elementary combustion of fuels. Steam power cycles and applications to steam turbines. Elements of heat transfer.

ME 305 Mechanical Engineering Laboratory I**1 (0-3) f**

Corequisite: ME 301

Theory and principles involved in instrumentation and measurements. Limitation and sources of error of each technique studied. Utilization of the instrumentation in predetermined situations that exhibit the essential characteristics of the instrumentation. Consideration of transient and steady state techniques. Areas of study: pyrometric measurements, piezo measurements and measurements of flow properties.

ME 306 Mechanical Engineering Laboratory II**1 (0-3) s**

Prerequisite: ME 305; Corequisites: EM 301 and ME 312

A continuation of ME 305 with emphasis on measurements of kinematic quantities, measurements of thermophysical properties and energy measurements. Treatment of experimental data.

ME 311 Kinematics**3 (3-0) f**

Corequisite: EM 301

Required of juniors in Mechanical Engineering

The application of the principles of kinematics to the field of Mechanical Engineering.

ME 312 Dynamic Analysis**3 (3-0) s**

Prerequisites: ME 311 and MA 301

Required of juniors in Mechanical Engineering

The application of rational dynamics to the field of mechanical engineering; the science of motions resulting from any force, and of the forces required to produce motions.

ME 352 Aerodynamics**3 (3-0) s**

Prerequisites: EM 200 and MA 301

Fundamental concepts underlying experimental aerodynamics, the aerodynamicist's data, elementary flow theory, Reynolds number and the effect of viscosity, Mach number and compressibility, finite wing theory.

ME 361 Aerospace Technology**3 (3-0) s**

Prerequisites: PY 202, EM 301, and MA 301

An introduction to the principles of flight in and beyond the atmosphere. Includes the elements of aerodynamics of flight, the reentry problem, flight dynamics, guidance and control, power generation in space, manned and unmanned space flight and life support systems.

ME 401 Power Plants**3 (3-0) f s**

Prerequisite: ME 302

Required of seniors in Mechanical Engineering

A study of the basic technical principles of the transformation of energy into useful forms and the study of the fundamental sciences leading to engineering decisions of selection and arrangement of energy transforming equipment. Various types and kinds of plants. Energy balance and significance upon the proper selection of elements in the power plan. Economic selection of components. Factors affecting the cost of power and the elements which enter into the problems arriving at monetary electric rates.

ME 405 Mechanical Engineering Laboratory III**1 (0-3) f**

Prerequisite: ME 306

Experimental analysis of engineering systems. Selection of appropriate instrumentation and analysis of predetermined small scale engineering systems designed for flexibility and wide variation of parameters. Experiments cover the gamut of mechanical engineering activity.

ME 406 Mechanical Engineering Laboratory IV**1 (0-3) s**

Prerequisite: ME 405

Individual or small group investigation of an original problem. A project type of program.

ME 410 Jet Propulsion**3 (3-0) s**

Prerequisite: ME 302 and ME 352 or EM 303

Application of fundamental principles of thermodynamics and the mechanics of a compressible fluid to the processes of jet-propulsion and turbo-propeller aircraft; the effect of performance of components on performance of engine; analysis of engine performance parameters.

ME 411 Machine Design I**3 (3-0) f**

Prerequisites: ME 312 and EM 301

Required of seniors in Mechanical Engineering

Basic principles of the mechanical sciences applied to the analysis of machines, devices, and mechanical systems. State of stress, state of strain, elasticity, working stresses, stress concentration, fatigue, impact and shock, plasticity, thermal stress, wear, lubrication and contact stress.

ME 412 Machine Design II**3 (3-0) s**

Prerequisite: ME 411

Required of seniors in Mechanical Engineering

Synthesis of machines, devices, and mechanical systems. The specification of systems, formulation of region of design, synthesis of elements, complete analysis of the ensemble, evaluation and closure of the design. Project activity with research emphasis.

ME 421 Aerospace Propulsion Systems**3 (3-0) s**

Prerequisites: ME 361 and ME 302

A study of propulsion systems and their relation to the various flight regimes and space missions. The principles of thrust generation, the control, and the performance of various propulsion systems will be considered.

ME 435 Industrial Automatic Controls**3 (3-0) f or s**

Prerequisites: ME 301 and MA 301

Introduction to concept of automatic controls; fundamentals of two-position, proportional, floating and rate modes of control with a graphical and analytical presentation of each. Theoretical considerations of the process and an introduction to system analysis.

ME 441 Technical Seminar**1 (1-0) f or s**

Prerequisite: Graduating senior standing

Meetings once a week for the delivery and discussion of student papers on topics of current interest in Mechanical Engineering.

ME 446 Performance of Hypervelocity Vehicles**3 (3-0) s**

Prerequisites: ME 361, ME 352

The application of the aerospace sciences to the estimation of the performance stability and control of hypervelocity vehicles.

ME 451 Introduction to Rocketry**3 (3-0) f or s**

Prerequisites: ME 301 and 352 or equivalent

Basic principles of rocket propulsion. Consideration of the significance and use of parameters such as specific impulse, characteristic velocity, thrust coefficient. General description of liquid, solid and hybrid power plants. Performance calculations and design considerations.

ME 453 Applied Aerodynamics**3 (3-0) f**

Prerequisite: ME 352

Determination of design data, tunnel wall and ground effect interference corrections, spanwise and chordwise load distributions, performance estimation, and stability and control analysis. Attention is given to transonic and supersonic aerodynamics.

ME 465, 466 Aerospace Engineering Laboratory**1 (0-3) f s**

Prerequisite: ME 361

Laboratory experience in wind tunnel experimentation, structural testing, environmental testing, and instrumentation for flight in and beyond the atmosphere.

ME 469 Spacecraft Structures**3 (3-0) f**

Prerequisites: ME 361 and EM 301

To provide the basic structural background necessary to the design of light weight structures for flight in and beyond the atmosphere.

ME 471 Aircraft and Missile Design**3 (1-6) f**

Prerequisites: ME 361, ME 352

Elements of the design of modern aircraft and high-speed missile configuration to meet prescribed aerodynamic, structural, performance, and stability specifications.

ME 472 Spacecraft Design**3 (1-6) s**

Prerequisite: ME 361

A study of flight requirements leading to determination of flight criteria and the specifications of spacecraft systems. The application of aerospace sciences to the design of spacecraft.

Courses for Graduates and Advanced Undergraduates**ME 501 Steam and Gas Turbines****3 (3-0) f**

Prerequisites: ME 302 and EM 303 or ME 352

Fundamental analysis of the theory and design of turbomachinery flow passages: control and performance of turbomachinery; gas-turbine engine processes.

ME 502 Heat Transfer**3 (3-0) f or s**

Prerequisites: ME 301 and MA 301

A study of the fundamental laws of heat transfer by conducting convection and radiation; steady and unsteady states heat transfer.

ME 503, 504 Elements of Nuclear Power Generation I, II**3 (3-0) f s**

Prerequisite: CHE 521

Engineering analysis and calculations involved in the elements of nuclear power generation including ideal and actual power cycles, prime movers and appurtenances. Elements of the cost of power and the engineering economics of selection of equipment. The nuclear reactor development and status as a source of power including a critical review of recent developments.

ME 507, 508 Internal Combustion Engine Fundamentals**3 (3-0) f s**

Prerequisite: ME 302

The fundamentals common to internal combustion engine cycles of operation. The Otto engine: carburetion, fuel distribution, flame propagation, normal and knocking combustion, throttling, pumping, valve and spark timing, and altitude effects; the Diesel engine: injection and spray formation fuel rating, atomization, penetration, diesel knock, combustion, pre-combustion, and scavenging as applied to reciprocating and rotary engines.

ME 515 Experimental Stress Analysis**3 (2-3) f**

Prerequisite: ME 312

Theoretical and experimental techniques of strain and stress analysis, with experimental emphasis on electrical strain gages and instrumentation, brittle coatings, grid methods, and photoelasticity. Laboratory includes a full experimental investigation and report of a problem chosen by the student under the guidance of the instructor.

ME 516 Photoelasticity**3 (2-3) s**

Prerequisite: ME 515

Two and three-dimensional photoelasticity; the stress-optic law, isochromatics, isoclinics, stress trajectories, fractional orders of interference; three dimensional techniques, oblique incidence, rotational and thickness effects; determination of principal stresses at interior points; laboratory investigations.

ME 517 Lubrication**3 (2-3) s**

Prerequisite: EM 303

The theory of hydrodynamic lubrication; Reynold's equation, the Sommerfield integration, effect of variable lubricant properties and energy equation for temperature rise. Properties of lubricants. Application to design of bearings. Boundary lubrication.

ME 521 Aerothermodynamics**3 (3-0) f or s**

Prerequisites: ME 301, MA 301 and EM 303 or ME 352

An examination of the basic concepts of gas dynamics such as the continuum, domain of applicability of continuum, acoustic velocity, compressibility effects, and the conservation laws. Analysis of one dimensional flows such as isentropic flow, diabatic flow, flow with friction, the normal shock. An introduction to the vector formulation of multi-dimensional problems.

ME 541, 542 Aerodynamic Heating**3 (3-0) f s**

Prerequisites: MA 511 and ME 521 or equivalent

A detailed study of the latest theoretical and experimental findings of the compressible laminar and turbulent boundary layers with special attention to the aerodynamic heating problem; application of theory in the analysis and design of aerospace hardware.

ME 545, 546 Project Work in Mechanical Engineering I, II**2 (0-4) f or s**

Individual or small group investigation of a problem stemming from a mutual student-faculty interest. Emphasis is placed on providing a situation for exploiting student curiosity.

ME 551 Flying Qualities**3 (3-0) f**

Prerequisite: ME 352

Evaluation of flying qualities of airplanes, important factors and criteria for design, analysis of stick-fixed and stick-free control and stability, maneuvering stability, lateral controllability, and stick force determination.

ME 552 Aircraft Applied Loads**3 (3-0) f**

Prerequisite: ME 453

Determination of aerodynamics loads, maneuvering and gust loads, V-g diagram, spanwise distributions on unswept and swept wings, dynamic flight loads. Consideration of the load modifications in the transonic flight range.

ME 553 Propeller and Rotary Wing Design**3 (3-0) f**

Prerequisite: ME 453

A study of the design of aircraft propellers and rotary wing theory and design. Discussion of problems of performance evaluation, control and stability, as applied to rotating wing aircraft.

ME 554 Advanced Aerodynamic Theory**3 (3-0) s**

Prerequisite: ME 352

Development of fundamental aerodynamic theory. Emphasis upon mathematical analysis and derivation of equations of motion, airfoil theory and comparison with experimental results. Introduction to supersonic flow theory.

ME 562 Advanced Aircraft Structures**3 (3-0) s**

Development of methods of stress analysis for aircraft structures, special problems in structural design, stiffened panels, rigid frames, indeterminate structures, general relaxation theory.

ME 571 Air Conditioning**3 (3-0) f**

Prerequisite: ME 302

A fundamental study of summer and winter air conditioning including temperature, humidity, air velocity and distribution.

ME 572 Refrigeration**3 (3-0) s**

Prerequisite: ME 302

A thermodynamic analysis of the simple, compound, centrifugal and multiple effect compression systems, the steam jet system and the absorption system of refrigeration.

ME 581, 582 Hypersonic Aerodynamics**3 (3-0) f s**

Prerequisites: MA 512 and ME 352 or equivalent

A detailed study of the latest theoretical and experimental findings in hypersonic aerodynamics.

Courses for Graduates Only**ME 601 Advanced Engineering Thermodynamics****3 (3-0) f**

Prerequisite: ME 302 or ME 303

First and Second Laws; theory of variable specific heats; general equations of thermodynamics; characteristic equations of state; reduced coordinates; prediction of properties of gases and vapors; chemical equilibrium; metastables; thermodynamics of fluid flow.

ME 602 Statistical Thermodynamics**3 (3-0) s**

Prerequisites: ME 601 and MA 511

Fundamental principles of kinetic theory, quantum mechanics, statistical mechanics and irreversible phenomena with particular reference to thermodynamics systems and processes. The conclusions of the classical thermodynamics are analyzed and established from the micro-sopic viewpoint.

ME 603 Advanced Power Plants**3 (3-0) f**

Prerequisite: ME 401

A critical analysis of the energy balance of thermal power plants; thermodynamics and economic evaluation of alternate schemes of development; study of recent developments in the production of power.

ME 605 Aerothermochemistry**3 (3-0) s**

Prerequisites: ME 601 and MA 511 or equivalent

A generalized treatment of combustion thermodynamics including derivation of thermodynamics quantities by the method of Jacobians, criteria for thermodynamic equilibrium, computation of equilibrium composition and adiabatic flame temperature. Introduction to classical chemical kinetics. Conservation equations for a reacting system, detonation and deflagration. Theories of flame propagation, flame stabilization, and turbulent combustion.

ME 606 Advanced Gas Dynamics**3 (3-0) s**

Prerequisites: ME 521, ME 601 and MA 511

The general conservation equations of gas dynamics from a differential and integral point of view. Hyperbolic compressible flow equations, unsteady one-dimensional flows, the non-linear problem of shock wave formation, isentropic plane flow, flow in nozzles and jets, turbulent flow.

ME 608 Advanced Heat Transfer I**3 (3-0) f**

Prerequisite: ME 502 or equivalent

Fundamental aspects, from an advanced viewpoint, will be considered in the conduction of heat through solids, convection phenomena, and the measurement and prediction of appropriate physical properties. Boundary value problems arising in heat conduction will be examined and both numerical and function solution techniques developed. Internal and external boundary layer analyses will be made on a variety of representative convection situations.

ME 609 Advanced Heat Transfer II**3 (3-0) s**

Prerequisite: ME 608

Advanced topics in the nonisothermal flow of fluids through channels will be investigated for slug, laminar, transitional and turbulent conditions. The influence of mass transfer on flow and heat transfer processes will be considered. Radiation exchange processes between solid surfaces and solid surfaces and gasses both stationary and moving will be discussed.

ME 610 Advanced Topics in Heat Transfer**3 (3-0) f**

Prerequisite: ME 609

This course constitutes a study of recent developments in heat transfer and related areas. It is anticipated that the course content will change from semester to semester.

ME 611, 612 Advanced Machine Design I, II**3 (3-0) f s**

Prerequisite: ME 412

Kinematics of mechanical media, the stress tensor, the tensor of strains, elasticity, plasticity, time-dependent behavior; theories of failure, working stresses; shock and steady dynamic loading, creep, stress concentration, thermal stress, contact stresses; energy theories, finite difference and relaxation methods, hydrodynamic lubrication. Application to the design of machine frames, shafts, bearings, gears, springs, cams, etc.

ME 613 Mechanics of Machinery**3 (3-0) f**

Prerequisites: ME 312 and MA 512

Vector dynamics, d'Alembert's principle, Lagrange's equations, rigid kinematics, Euler's angles, rigid rotation, Coriolis accelerations; the inertia tensor. Application to mechanisms, gyroscopes, guidance and control systems, rotating and reciprocating devices.

ME 614 Mechanical Transients and Machine Vibrations**3 (3-0) s**

Prerequisites: ME 312 or EM 545 and MA 512

Dynamic loads in mechanical media are considered in two categories—steady vibrations and transient shock and impact. The Lagrange equations and the wave equation are employed to study internal stresses and displacements in mechanical devices which result from such loading.

ME 615 Aeroelasticity I**3-0**

Prerequisites: MA 541, ME 411 or ME 459, ME 521

Deformations of aero structures under static and dynamic loads, natural mode shapes and frequencies; two and three dimensional incompressible flow, wings, and bodies in unsteady flow; static aeroelastic phenomena.

ME 616 Aeroelasticity II**0-3**

Prerequisites: MA 511, ME 615

Flutter; dynamic response phenomena such as transient landing stresses, gusts, continuous atmospheric turbulence; aeroelastic model theory, model design and construction.

ME 617 Plates and Shells in Mechanical Design**3 (3-0) s**

Prerequisites: MA 511 and ME 611

The concept of members which are thin in one dimension, that is, plates and shells, is applied to mechanical design with particular emphasis on type of loading, conditions of service, and compliance of the member to its environment.

ME 631 Applications of Ultrasonics to Engineering Research**3 (3-0) f**

Prerequisites: MA 511 and EE 332

The technique and theory of propagation of ultrasonics in liquids, gases and solids. Development of ultrasonic transducers, the elastic piezoelectric, and dielectric relationships. Ultrasonic applications of asdic or sonar, cavitation, emulsification, soldering, welding, and acoustic properties of gases, liquids and solids.

ME 641 Mechanical Engineering Seminar**1 or 1**

Faculty and graduate student discussions centered around current research problems and advanced engineering theories.

ME 642 Advanced Topics in Mechanical Engineering**1 to 6 credits f or s**

Prerequisite: Graduate standing

Faculty and graduate student discussions of advanced topics in contemporary Mechanical Engineering.

ME 645 Mechanical Engineering Research**Credits by arrangement**

Prerequisites: Graduate standing in Mechanical Engineering and approval of adviser

Individual research in the field of Mechanical Engineering.

ME 651 Principles of Fluid Motion**3 (3-0) f**

Prerequisite: ME 352 or equivalent; Corequisite: MA 511

Fundamental principles of fluid dynamics. Mathematical methods of analysis are emphasized. Potential flow theory development with introduction to the effects of viscosity and compressibility. Two dimensional and three dimensional phenomena are considered.

ME 652 Dynamics of Compressible Flow**3 (3-0) s**

Prerequisite: ME 521 or equivalent; Corequisite: MA 511

Properties of compressible fluids, equation of motion of one-dimensional motion, channel flows, shock wave theory, methods of observation, and flows at transonic speeds.

ME 653 Supersonic Aerodynamics**3 (5-0) f**

Prerequisite: ME 652

Equations of motion in supersonic flow, Prandtl-Meyer turns, method characteristics, hodograph plane, supersonic wind tunnels, supersonic airfoil theory, and boundary layer shock interaction.

ME 654 Dynamics of Viscous Fluids**3 (3-0) s**

Prerequisite: ME 555 or equivalent; Corequisite: MA 511

Development of the Navier-Stokes equations and the boundary layer theory. Laminar and turbulent boundary layers in theory and experiment, flow separation, and transition.

ME 660 Aero-Mechanical Engineering Problems**3 (3-0) s**

Prerequisites: ME 502, MA 514, 543 or equivalent

Derivation of governing equations and set-up of representative problems in heat transfer, gas dynamics and magneto-hydrodynamics; review of techniques for solving these problems. Introduction of other techniques such as method of steepest descent, method of Weiner-Hopf, variational methods and others. Phase-space and function space concepts will be introduced also. Purpose of the course in the graduate program to strengthen the analytical techniques of the students in dealing with aero-mechanical engineering problems so that in their later studies more emphasis may be put on formulation of new problems and physical interpretation of new results.

ME 661, 662 Aerospace Energy Systems**3 (3-0) f s**

Prerequisites: MA 512, ME 521, PY 407 or equivalent

A study of energy systems appropriate to the varied requirements of space operations. Includes analysis of chemical, nuclear and solar energy sources and the theory of their adaptation to operational requirements for propulsion and auxiliary power, cooling requirements, coolants and materials.

ME 671, 672 Advanced Air Conditioning Design I, II**3 (3-0) f s**

Prerequisites: ME 571 and ME 572

The design of heating and air conditioning systems; the preparation of specifications and performance tests on heating and air conditioning equipment.

ME 691, 692 Advanced Spacecraft Design**3 (3-0) f s**

Prerequisites: ME 542, ME 582 and MA 512

Analysis and design of spacecraft including system design criteria, acceleration tolerance, entry environment, thermal requirements, criteria for configuration design, aerodynamic design, heating rates, thermostructural design, boost phase, de-orbit, entry corridor, lift modulation, rolling entry, glide phase, maneuvering and landing, stability and control, thermal protection system, materials, instrumentation, and life support systems.

Metallurgical Engineering

Courses for Undergraduates

MIM 201, 202 Structure and Properties of Engineering Materials I, II**3 (2-3) f s**

Prerequisite: CH 103

I An introduction to the fundamental physical principles governing the structure and constitution of metallic and non-metallic materials of construction, and the relation of these principles to the control of properties.

II Important applications of engineering materials and criteria for selection of materials.

MIM 321 Metallurgy**3 (2-3) s**

Prerequisite: CH 103

A general course in physical metallurgy including laboratory work.

The constitution, structure, and properties of metals and alloys.

MIM 331, 332 Physical Metallurgy I, II**3 (3-0) f s**

Prerequisites: CH 103, MIM 201

Required of juniors in MTE

The fundamental principles of physical metallurgy with emphasis on correlation between structure, constitution, and properties of metals and alloys. A systematic development of the metallurgical aspects of atomic and crystalline structure, solid solution, diffusion, precipitation hardening, elastic and plastic behavior, and recrystallization.

- MIM 401, 402 Metallurgical Operations I, II** 4 (3-3) f s
 Prerequisite: MIM 332
 A systematized treatment of the fundamental operations involved in the production and fabrication of metals and alloys. Part I deals primarily with procedures and operations employed in chemical or extractive metallurgy. Part II covers the operations of physical and mechanical metallurgy.
- MIM 421, 422 Metallurgy I, II** 2 (2-0) f s
 Prerequisite: CH 103
 Required of seniors in ME and MEA
 The constitution, structure and properties of engineering ferrous and non-ferrous metals and alloys; influences of mechanical working and heat treatment; physical testing, corrosion and its prevention. Laboratory work included in second semester.
- MIM 423 Metallurgical Laboratory** 1 (0-3) f s
 Corequisite: MIM 421 or MIM 422
 Laboratory work to accompany Metallurgy I, II
- MIM 431, 432 Metallography I, II** 3 (2-3) f s
 Prerequisite: MIM 332
 An intensive study of the principles and techniques for examination and correlation of the structure, constitution, and properties of metals and alloys.
- MIM 445, 446 Experimental Engineering I, II** 3 (1-6) f s
 Prerequisite: MIM 422 or approval of instructor
 Advanced engineering principles applied to a specific project dealing with metallurgy, metallography, or general experimental work. A seminar period provided and a written report required.
- MIM 451, 452 Metallurgical Engineering Seminar** 1 (1-0) f s
 Prerequisite: Senior standing in MTE
 Reports and discussion of special topics in metallurgical engineering and related subjects.

Courses for Graduates and Advanced Undergraduates

- MIM 521, 522 Advanced Physical Metallurgy I, II** 3 (3-0) f s
 Prerequisite: MIM 422 or MIM 432
 Theories concerning behavior and control of engineering alloys, reaction rates in the solid state and alloy influences; current heat treating practices, surface treatments; behavior of metals at high and low temperatures; special purpose alloys; powder metallurgy; review of modern equipment and methods for the study of metals.
- MIM 523, 524 Metallurgical Factors in Design** 3 (3-0) f s
 Prerequisite: MIM 422
 A study of the metallurgical factors that must be considered in using metals in design.
- MIM 541, 542 Principles of Corrosion I, II** 3 (2-3) f s
 Prerequisite: MIM 422
 The fundamentals of metallic corrosion and passivity. The electrochemical nature of corrosive attack, basic forms of corrosion, corrosion rate factors, methods of corrosion protection. Laboratory work included.
- MIM 545, 546 Advanced Metallurgical Experiments I, II** 3 (1-6) f s
 Prerequisite: MIM 422 or approval of instructor
 Advanced engineering principles applied to a specific experimental metallurgical project. A seminar period is provided and a written report is required.

MIM 561 Advanced Structure and Properties of Materials**3 (2-3) f**

Prerequisite: MIM 422

A systematic treatment of the fundamental physico-chemical principles governing the constitution of both metallic and ceramic materials. Correlation of these principles with physical, mechanical and chemical properties of materials. Particular emphasis is placed upon materials of construction for nuclear reactors. Lecture and laboratory.

MIM 562 Materials Problems in Nuclear Engineering**3 (2-3) s**

Prerequisite: MIM 561

Engineering aspects of problems involved in the selection and application of reactor materials. Specific attention is given to elevated temperature behavior, fatigue, corrosion, irradiation damage, and the fabrication and processing of these materials. Lecture and laboratory.

Courses for Graduates Only

MIM 651, 652 Theory and Structure of Metals**3 (3-0) f s**

Prerequisite: MIM 522

An advanced interpretation of the development of theories of the metallic state with emphasis on modern physical concepts. Topics include theory of crystallinity, bonding forces, stability of metallic structures, diffusion, and dislocation theory.

MIM 695 Metallurgical Engineering Research**Credits by arrangement**

Independent investigation of an appropriate problem in Metallurgical Engineering. A report on this investigation is required as a graduate thesis.

Military Science

The Basic Course

MS 101 Military Science I**1 (1-1) f**

Classroom instruction is given in individual weapons and marksmanship, and organization of the Army. On the drill field, emphasis is placed on development of teamwork, esprit de corps, and essential characteristics of leadership.

MS 102 Military Science I**1 (1-1) s**

Prerequisite: MS 101 or equivalent credit

Classroom instruction is given in the role of United States Army and National Security. On the drill field, emphasis is placed on development of teamwork, esprit de corps, essential characteristics of leadership.

MS 201 Military Science II**1 (0-3) f**

Prerequisites: MS 101, MS 102, or equivalent credit

Classroom instruction in American Military History. On the drill field emphasis is placed on development of teamwork, esprit de corps, essential characteristics of leadership, and acceptance of responsibility.

MS 202 Military Science II**1 (0-3) s**

Prerequisites: MS I and MS 201 or equivalent credit

Classroom instruction in map and aerial photograph reading and introduction to operations and basic tactics. On the drill field emphasis is placed on development of teamwork, esprit de corps, essential characteristics of leadership, and acceptance of responsibility.

The Advanced Course

MS 301 Military Science III

1 (2-1) f

Prerequisites: MS I and MS II or equivalent credit

Classroom instruction is given in military leadership, emphasizing the factors controlling the soldier's behavior and the problems of command; branches of the Army, emphasizing the mission of each in order to acquaint students with all branches prior to their ROTC Summer Camp and selection of branch in their senior year; principles of military planning and conduct of offensive and defensive tactics. Practical leadership instruction is provided on the drill field where emphasis is placed on acceptance of responsibility, exercise of command, and development of self-confidence, initiative and dignity in appearance and demeanor.

MS 302 Military Science III

2 (2-1) s

Prerequisite: MS 301

Classroom instruction is given in methods of military teaching with special reference to the leader's responsibility for soldier's learning; continuation of offensive and defensive tactics including communications in support of military operations; and a pre-camp orientation prior to ROTC Summer Camp. Practical leadership instruction is provided on the drill field where emphasis is placed on acceptance of responsibility, exercise of command and development of self-confidence.

MS 401 Military Science IV

1 (2-1) f

Prerequisites: MS III, and satisfactory completion of six weeks' summer camp training

Classroom instruction is given in military justice, troop movement, logistics, intelligence, and operations. On the drill field, emphasis is placed on the exercise of command, planning and executing all phases of training (instruction in basic fundamentals, inspections, ceremonies, and competitions) and maximum development of teamwork, esprit de corps, and leadership characteristics.

MS 402 Military Science IV

2 (2-1) s

Prerequisite: MS 401

Classroom instruction is given in supply and evacuation, Army administration, role of the United States in world affairs, and service orientation. On the drill field, emphasis is placed on the exercise of command, planning and executing all phases of training (instruction in basic fundamentals, inspections, ceremonies, and competitions) and maximum development of teamwork, esprit de corps, and leadership characteristics.

Mineral Industries

See Ceramic Engineering

See Geological Engineering

See Metallurgical Engineering

Modern Languages

Courses numbered 200 and above need not be followed as a sequence in their respective gamut. Two years of high school language will normally be considered the equivalent of one year of college instruction in that language. All students registering for a language course will be examined on proficiency and scheduled for the course for which they are fitted.

English (Foreign Students)

MLE 101 Elementary English: Pronunciation

3 (3-0) f s

Emphasis in this course is laid upon the pronunciation and comprehension of American English. Through oral reports students are encouraged to improve their diction and pronunciation. Comprehension is approached through dictation and lectures. Attention to grammar and spelling is given as individual problems arise.

MLE 102 Elementary English: Composition**3 (3-0) f s**

Emphasis in this course is laid upon the writing of English, special attention being given to compositions, grammatical exercises, sentence structure, spelling and diction.

French**MLF 101 Elementary French****3 (3-0) f s**

Structure, diction, pronunciation and other matters of technique of the language, supplemented by readings and translations. No previous training in the language necessary.

MLF 102 French Grammar and Prose Reading**3 (3-0) f s**

Prerequisite: MLF 101 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

MLF 201 French Prose: Selections From Modern French Literature**3 (3-0) f s**

Prerequisites: MLF 101, MLF 102 or equivalent

Selected readings from literary French. Attention given to the attainment of skill in reading and comprehension.

MLF 202 French Civilization**3 (3-0) f s**

Prerequisites: MLF 101, MLF 102 or equivalent

Special emphasis given to translating from French. After a preliminary survey of the land and people of France, such topics as language, arts, science, literature, philosophy, etc., are given consideration. Parallel readings and reports.

MLF 203 Review Grammar and Composition**3 (3-0) f s**

Prerequisites: MLF 101, MLF 102 or equivalent

This course will bridge the gap between basic grammar courses and the more advanced literary courses preparing the student for the more advanced type of composition and conversation expected of him in the latter. It will also offer an opportunity for students with previous knowledge of a language from secondary schools to review grammar and obtain experience in an area not normally covered in their high school work.

MLF 301 Survey of French Literature**3 (3-0) f s**

Prerequisite: Junior or senior standing

Lectures illustrated by selected readings in translation covering the development of the novel, the drama, the short story and the poetry of France from the 12th century to the present. Parallel readings and reports. No language prerequisites.

MLF 401 Introductory Scientific French**3 (3-0) f s**

This course is designed to present the grammar of scientific French as rapidly as possible in preparation for the reading course which follows.

MLF 402 Introductory Scientific French**3 (3-0) f s**

Prerequisite: MLF 401 or equivalent

Reading and translation of technical French, supplemented by discussions on terminology, word order, vocabulary analysis and other linguistic techniques. Subject material adjusted to individual needs; conferences.

German**MLG 101 Elementary German****3 (3-0) f s**

Study of the structure and technique of the language, supplemented by easy reading and translations. No previous training in the language necessary.

MLG 102 German Grammar and Prose Reading**3 (3-0) f s**

Prerequisite: MLG 101 or equivalent

A course designed primarily for students who wish to attain proficiency in reading German. Attention given to basic grammar and vocabulary with practice in the translation and interpretation of German prose.

MLG 201 German Prose: Selections from Modern German Literature 3 (3-0) f s

Prerequisites: MLG 101, MLG 102 or equivalent

Readings in German literature, a study of representative authors and their contribution to the development of the German language and culture. Parallel readings and reports.

MLG 202 German Civilization 3 (3-0) f s

Prerequisites: MLG 101, MLG 102 or equivalent

Attention given to translation from German. Readings in the history and customs of Germany, supplemented by lectures on such topics as language, arts, science, philosophy, etc. Parallel readings and reports.

MLG 203 Review Grammar and Composition 3 (3-0) f s

Prerequisite: MLG 101, MLG 102 or equivalent

This course will bridge the gap between basic grammar courses and the more advanced literary courses preparing the student for the more advanced type of composition and conversation expected of him in the latter. It will also offer an opportunity for students with previous knowledge of a language from secondary schools to review grammar and obtain experience in an area not normally covered in their high school work.

MLG 301 Survey of German Literature 3 (3-0) f s

Prerequisite: Junior or senior standing

The study of various types of German literature. A brief outline of German literary development. Parallel readings in translation. No previous training in the language necessary.

MLG 401 German Grammar for Graduate Students 3 (3-0) f s

This course is open to graduate students and senior honor students and is designed to present the grammar of scientific German as rapidly as possible in preparation for the reading course which follows.

MLG 402 Scientific German 3 (3-0) f s

Prerequisite: MLG 401 or equivalent

Reading and translation of technical German, supplemented by discussions on terminology, word order, vocabulary analysis and other linguistic techniques. Subject material adjusted to individual needs; conferences.

Italian**MLI 101 Elementary Italian 3 (3-0) f s**

Structure, diction, pronunciation, and other matters of technique of the language, supplemented by easy readings, individual reports and conferences. No previous training in the language required.

MLI 102 Italian Grammar and Prose Reading 3 (3-0) f s

Prerequisite: MLI 101 or equivalent

A survey of basic elements of grammar accompanied and illustrated by intermediate readings, progressing to the reading of standard texts.

Russian**MLR 101 Elementary Russian 3 (3-0) f s**

Basic structure of the language, supplemented by easy readings.

MLR 102 Russian Grammar and Prose Reading 3 (3-0) f s

Prerequisite: MLR 101

A course for students who wish to attain proficiency in reading Russian. Attention given to basic grammar and the use of the written language.

MLR 201 Russian Prose: Selections from Russian Literature 3 (3-0) f s

Prerequisites: MLR 101, MLR 102 or equivalent

Selected readings from Russian literature. Grammar review and emphasis on vocabulary building and improvement in reading and speaking ability.

MLR 202 Russian Civilization**3 (3-0) f s**

Prerequisites: MLR 101, MLR 102

Reading in Russian covering the history, politics, customs, and culture of Russia. Emphasis given to accurate translation from Russian to English. Parallel readings and reports.

Spanish

MLS 101 Elementary Spanish**3 (3-0) f s**

Structure, diction, pronunciation and other matters of technique of the language, supplemented by easy readings. No previous training in the language necessary.

MLS 102 Spanish Grammar and Prose Reading**3 (3-0) f s**

Prerequisite: MLS 101 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

MLS 201 Spanish Civilization**3 (3-0) f s**

Prerequisites: MLS 101, MLS 102 or equivalent

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history, and economy of Spain.

MLS 202 Hispano-American Civilization**3 (3-0) f s**

Prerequisites: MLS 101, MLS 102 or equivalent

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history and economy of the Spanish American countries.

MLS 203 Review Grammar and Composition**3 (3-0) f s**

Prerequisites: MLS 101, MLS 102 or equivalent

This course will bridge the gap between basic grammar courses and the more advanced literary courses preparing the student for the more advanced type of composition and conversation expected of him in the latter. It will also offer an opportunity for students with previous knowledge of a language from secondary schools to review grammar and obtain experience in an area not normally covered in their high school work.

MLS 301 Survey of Spanish Literature**3 (3-0) f s**

Prerequisite: Junior or senior standing

Lecture illustrated by selected reading in translation covering the development of the novel, drama, short story, and poetry of Spain from 1300 to the present. Parallel reading and reports by students.

MLS 307, 308 Technical Spanish**3 (3-0) f s**

Prerequisite: MLS 201 or equivalent

A study of technical and industrial literature. Particular attention given to the special terminology characteristic of such literature with a view to the acquisition of a practical vocabulary. Individual conferences and reports.

MLS 401 Introductory Scientific Spanish**3 (3-0) f s**

This course is designed to present the grammar of scientific Spanish as rapidly as possible in preparation for the reading course which follows.

MLS 402 Introductory Scientific Spanish**3 (3-0) f s**

Prerequisite: MLS 401 or equivalent

Reading and translation of technical Spanish, supplemented by discussion on terminology, word order, vocabulary analysis and other linguistic techniques. Subject material adjusted to individual needs; conferences.

General Courses

ML 321, 322 Romance Literature

2 (2-0) s

Prerequisite: Junior or senior standing

A course cutting across language barriers to illustrate the most outstanding literary productions of France, Spain, Italy, and Portugal and showing the cultural and social pattern of these nationalities having a common language inheritance. Selected readings and reports.

ML 323, 324 Germanic Literature

2 (2-0) s

Prerequisite: Junior or senior standing

A study of the literary productions in each of the various types of Germanic literature, and lectures on their cultural background. Designed primarily to meet the needs of students who wish to supplement their knowledge of their own literature with that of the literature of other civilizations. Attention is given to the literary monuments of Germany, Holland, Denmark, Iceland, and the Scandinavian countries. No foreign language prerequisites.

Nuclear Engineering

Courses for Graduates and Advanced Undergraduates

NE 501 Nuclear Engineering Systems I

3 (3-0) f

An introductory course in reactor theory and engineering including the fission process; neutron energy distribution; lethargy; neutron slowing, diffusion and interactions; Fermi age theory; the diffusion equation, criticality conditions; reactor instrumentation.

Graduate Staff

NE 502 Nuclear Engineering Systems II

3 (3-0) s

Continuation of reactor theory from NE 501. Topics include treatment of reactor parameters for homogeneous and heterogeneous reactors; reflected reactors, two-group theory, reactor kinetics, temperature effects, control rod theory, perturbation theory and transport theory.

Graduate Staff

NE 503 Nuclear Reactor Theory I

3 (3-0) s

Course considers reactor as a system including aspects of reactor control, radiation protection, shielding and thermal design.

Graduate Staff

NE 531 (PY 531) Nuclear Reactor Laboratory

1 (0-1) f s

Corequisites: PY 518, PY 530

Observation and measurements of static and dynamic nuclear reactor behavior, the effectiveness of control and temperature, and correlation with theory. Experiments of the motion and detection of neutrons and gamma-rays, with emphasis on the research uses of nuclear reactor radiations.

Courses for Graduates Only

NE 619 (PY 619) Reactor Theory and Analysis I

3 (3-0) f

Prerequisite: PY 530

The theory of neutron slowing, resonance capture, Doppler effect, and thermal flux distributions in heterogeneous nuclear reactors. Analysis of reactor control by temperature, effects of localized and distributed absorbers, fission products, fuel consumption and production. One-velocity neutron transport theory.

NE 620 (PY 620) Nuclear Radiation Attenuation

3 (3-0) f

Prerequisites: PY 530, MA 512

Physical theory of the behavior of neutrons, gamma-rays and charged particles in matter. Calculation of source terms, attenuation factors, heating rates, geometrical transformations, radiation streaming and radioactive decay effects required in the design of nuclear radiation shields for reactors, accelerators, and space vehicles. Transport theory of gamma-ray and neutron transmission through matter. Analysis of experimental techniques for obtaining shielding data.

NE 630 (PY 630) Reactor Theory and Analysis II**3 (3-0) s**

Prerequisite: PY 530

The theory of neutron multiplication in uniform media, with several dimensions, regions, and neutron energy groups. Reactor control by absorbers, time dependent reactor behavior, matrix treatment of perturbation theory, neutron thermalization, energy dependent neutron transport theory, and multigroup machine methods.

Occupational Information and Guidance

(See Education)

Philosophy and Religion

Courses for Undergraduates

PHI 201 Logic**3 (3-0) f s**

Language as symbol system, the formal structure of reasoning, and characteristics of empirical knowledge; emphasis on the establishment of reflective habits.

PHI 203 Introduction to Philosophy**2 (2-0) f s**

The course is designed (1) to acquaint the student with basic principles and problems of logic and theory of knowledge; (2) to develop ability in effective philosophical analysis and the formulation of one's own ideas in selected areas of contemporary concern.

PHI 205 Problems and Types of Philosophy**3 (3-0) f s**

The great philosophers of the western world, the socio-cultural heritage in which they worked, their major concerns and conclusions; the relation of philosophy to vital questions of human life.

REL 301 Religious Groups and Trends in the United States**2 (2-0) f s**

Background and characteristic beliefs of the major religious groups in the United States; survey of the dominant trends and movements in contemporary American religion.

REL 302 The Bible and Its Background**3 (3-0) f s**

Background of the Bible, origin, growth and development of central concepts, leading personalities, and the process by which it has come to us as viewed in the light of modern scholarship.

REL 303 Christian Ethics**2 (2-0) f s**

An analysis of the major areas of modern life in the light of the ethical teachings of Christianity, with an examination of the religious faith upon which these teachings rest.

PHI 305 Philosophy of Religion**3 (3-0) f s**

Psychological and historical roots of religious belief; science, philosophy, and religion; the rational foundations of theism; the concept of God in Western thought.

PHI 306 Philosophy of Art**3 (3-0) f s**

Study of historical and contemporary theories of art; development of coherent set of concepts for analysis and discussion of esthetic experience, critical judgments, works of art and their relations to other aspects of culture.

PHI 307 Ethics**3 (3-0) f s**

Study of major ethical theories; systematic analysis of the nature of value judgments, and the concepts of moral obligation, right and good; personal and social aspects of human conduct.

PHI 309 Marriage and Family Living**3 (3-0) f s**

Secular and religious concepts of marriage; physical, socio-psychological, and ethical aspects of premarital and marital relationships; parenthood; analysis of value judgments relative to marriage and family living; formulation of philosophy of marriage.

PHI 311 Parent-Child Relationships**2 (2-0) f s**

Principles of inter-personal relationships; democratic values and the attainment of growth by parent and child through freedom, responsibility, and creative activity; analysis of current theories of husband-wife, and parent-child relationships.

PHI 395 Philosophical Analysis**3 (3-0) f s**

Semantical, logical, and experiential methods of investigation; intensive application of critical inquiry to a few fundamental problems including the nature of knowledge and its validation, and value judgment; major objective to afford personal participation in and acquaintance with philosophical analysis as intellectual tool with wide applicability.

PHI 401 Symbolic Logic**3 (3-0) f s**

Modern methods in logic involving formalized expression that avoids inherent difficulties and ambiguities of ordinary language and makes possible greater effectiveness in handling complex material.

REL 403 Religions of the World**3 (3-0) f s**

Background, general characteristics, and basic teachings of the major living religions of the world; consideration of contemporary secular movements that are in a sense religions.

PHI 405 Foundations of Science**3 (3-0) f s**

Nature and validity of knowledge, basic concepts of modern science, scientific method, and the implications of the philosophy of modern science for ethics, social philosophy, and the nature of reality.

Courses for Graduates and Advanced Undergraduates

REL 502 Problems of Religion**3 (3-0) f s**

Prerequisite: Six term credits in religion or related fields

Major trends in contemporary theology; significance of the resurgent interest in religion and the growth of the church in recent times; problem of communication between theology and science; the ecumenical movement.

Physical Education

The College requires four semesters in physical education to be taken consecutively during the freshman and sophomore years. Each semester of physical education is divided into two eight-week courses or activities. These courses are divided into two areas; the areas are Prescribed Courses and Elective Sports Activities. In as much as staff, facilities, and allotment of time will permit, each student is directed into courses which will best meet his individual needs. The basis for determining the needs of the individual student are as follows:

1. *Medical Examination.* The required medical examination should give the College Health Service an awareness of unusual physical impairments that a student may have. If the student knows of any other possible reason for limiting his physical activity, he should inform the college physician. The college physician will then recommend possible limitations in activities to the Physical Education Department. Based on this recommendation, a special program will be arranged for the student involved. All medical recommendations must be cleared through the College Health Service.
2. *Swimming Test.* All students who have any requirement in physical education to meet, at State College, must take a swimming test. Those students who cannot pass the test are assigned to Beginning Swimming as their first course in physical education. This course must be passed, qualifying the student as a swimmer, before the physical education requirement is completed. Those students who pass the swimming test are further classified according to their ability level. This classification determines which swimming course they select first.

3. *Athletic Ability Test.* An athletic ability test is given to all freshmen during Freshman Orientation Week. Students who score below the 15th percentile are enrolled in a course in fundamental sports for two semesters or until they gain a level of ability which indicates they are ready for the basic sports program. The students who score between the 15th and the 75th percentile are enrolled in the basic sports program. Those who score above the 75th percentile are permitted to elect their activities along with the sophomores. All sophomores, juniors, and seniors are allowed to select activities of their choice.
4. *Health Knowledge Test.* All freshmen are required to take a health knowledge test during Freshman Orientation Week. Those who do not pass this test must take a course in hygiene for eight weeks ($\frac{1}{2}$ semester) in lieu of one physical education activity.

Requirements for Veterans and Transfer Students

1. All servicemen who have taken as much as six-months military service will receive one year of credit, PE 101, PE 102.
2. All servicemen will be required to take one year of Physical Education (PE 201, PE 202.)
3. A former student or transfer student with one earned semester credit in Physical Education, plus military service must earn one more semester credit. (PE 202)
4. A student who has earned one year (2 semester credits) here or elsewhere, plus his credit of one year for military service, will have completed his requirements.
5. Veterans or transfer students who have received credit for two full years of Physical Education, may elect to take additional courses which would be in the 300 series—PE 301, PE 302, PE 303, PE 304.
6. All students who have received one year of credit in Physical Education, from military service or as a transfer student, will be exempt from the hygiene requirement.
7. All students who take even one semester of physical education as a required course at North Carolina State College must pass the swimming requirement.

Courses

PE 101, 102 1 (0-2) f s

PE 201, 202 1 (0-2) f s

PE 301, 302, 303, 304 Junior and Senior electives 1 (0-2) f s

Note: Juniors and seniors may elect any activity from the controlled elective sports area in which they have not previously received credit. Transfer students and veterans who cannot swim will be urged to elect beginning swimming.

Courses in Prescribed Sports Area

Beginning Swimming: Offered in the fall semester. A course designed for meeting the swimming requirement and for preparing the student for intermediate swimming.

Fundamental Sports: Offered in the fall and spring. A course designed for the low skilled student where a particular type of activity can be given to meet his special needs.

Basic Sports: Offered in the fall and spring semesters. A course designed to acquaint the medium skilled student with appropriate activities to prepare him for elective sports.

Hygiene: Offered in the second half of the fall semester, and in the first half of the spring semester. A course designed to meet the health knowledge requirement and to guide the student to a more healthful way of life.

Courses in Elective Sports Area

All courses offered as elective sports are classified as Team Sports, Aquatics, Recreational Sports, Developmental Activities, or Varsity Sports. A student cannot repeat any course for credit. The courses are listed under their proper classification as follows.

Team Sports:

Basketball: Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to cover the fundamentals of shooting, offensive and defensive strategy, history and rules.

Football (touch): Offered in the first half of the fall semester. A course designed to cover the fundamentals of offensive and defensive play.

Soccer: Offered in the first half of the fall semester. A course designed to acquaint the student with the fundamental skills and to provide out-of-door activity in a team sport.

Softball: Offered in the second half of the spring semester. A course designed to include the fundamentals, history, and rules of the game.

Speedball: Offered in the fall and spring semesters. A course designed to teach the fundamental skills, history, and rules of the game.

Volleyball: Offered in the first half of the fall semester, and in the entire spring semester. A course designed to include the fundamentals, history, and rules of the game.

Aquatics:

Swimming (Intermediate): Offered in both fall and spring semesters. A course designed to give the student competence in four basic strokes and two dives, preparatory to the Life Saving Program.

Water Sports: Offered in fall and spring semesters. A course to teach the skills of water-polo and water basketball, plus improvement in stamina and skill necessary to improving ability. This course may not be taken by those students who have progressed beyond Senior Life Saving.

Swimming (Senior Red Cross Life Saving): Offered in the fall and spring semesters. Prerequisite: Intermediate Swimming or the equivalent. A course designed to qualify students for a Senior Red Cross Life Saving certificate and the possibility of a Water Safety Instructor's rating.

Swimming (Red Cross Instructors): Offered in the fall and spring semesters. Prerequisite: A certificate for Senior Red Cross Life Saving. A course designed to qualify students for a Water Safety Instructor's rating.

Recreational Sports:

Angling: Offered in the first half of the fall semester, and the second half of the spring semester. A course designed to teach the fundamentals of spin, fly and bait casting, and an understanding of the game of skish.

Badminton: Offered in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the basic strokes and a general knowledge of the history, rules and strategy of the game.

Bowling (Ten Pins): Offered in the first and second half of the fall semester, and in the first half of the spring semester. Fundamentals of ball selection, grip, stance, and delivery are taught, together with rules, history, scoring and general theory of spare coverage. Students take turns setting pins. (Fee \$2.50).

Golf: Offered in the first half of the fall semester and in the second half of the spring semester. A course designed for the beginner; grip, stance, swing, and use of the various clubs, together with the history and etiquette of play.

Handball (Four Wall): Offered in both fall and spring semesters. A course designed to include the fundamentals, together with history and rules of handball.

Roller Skating: Offered during the second half of the fall semester and the first half of the spring semester. A course designed to teach the fundamentals of roller skating. Emphasis will be on body balance and control.

Squash: Offered in both fall and spring semesters. A course designed to include the fundamentals, together with history and rules of squash.

Tennis (Beginning): Offered in the first half of the fall semester and in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the history, rules and basic strategy of the game.

Tennis (Advanced): Offered in the first half of the fall semester and in the second half of the spring semester. Prerequisite: Beginning Tennis or its equivalent. Basic strokes are reviewed and the more difficult strokes taught. Emphasis is placed upon strategy during play and upon a more factual knowledge of the game and court etiquette.

Developmental Activities:

Boxing: Offered in the second half of the fall semester. A course designed to acquaint the student with the fundamentals, history, and rules, with special emphasis on defensive techniques.

Cross Country: Offered both fall and spring semesters. A course designed to develop knowledge, skill, and interest in cross-country.

Gymnastics: Offered in the second half of the fall semester and first half of the spring semester. A course designed to include the fundamentals of gymnastics on the parallel bars, side horse, trampoline, and mats.

Advanced Gymnastics: Offered in the fall semester. A course designed for those students who wish to progress beyond the beginning course in gymnastics.

Track and Field: Offered during the first half of the fall semester and second half of the spring semester. A course designed to develop knowledge, skill and interest in track and field events.

Wrestling: Offered in the first half of the fall semester and the first half of the spring semester. A course designed to give the fundamentals, history and rules of wrestling.

Varsity Sports:

Note: students may elect, with the approval of the coach, the following varsity sports: baseball, basketball, cross-country track, football, golf, soccer, swimming, track, and wrestling.

Physical Sciences and Applied Mathematics

PSM 100 Orientation

Introduction to the fields of the physical sciences and mathematics. Required of all new freshmen in the school. **0 (1-0) f**
Staff

Physics

Courses for Undergraduates

PY 201, 202 General Physics

Corequisite: MA 201

Required of sophomores in sciences, mathematics, and engineering. A study of classical and modern physics in which the analytical approach is employed. Emphasis is placed on the understanding of fundamental facts and principles, and on the solution of problems. The MKS system of units is used, and calculus is applied as needed. Demonstration lectures, recitations, problem drill and laboratory work are coordinated to give a working knowledge of basic principles. PY 201, mechanics, sound, and heat; PY 202, electricity, light, and modern physics. **5 (3-4) f s; f s**
Staff

PY 205, 206, 207 General Physics

Corequisite: MA 201

Intended primarily for majors in departments of the School of Physical Sciences and Applied Mathematics. A study of classical and modern physics in which fundamental principles are emphasized. Calculus is used throughout as needed. Demonstrations and laboratory work tend to emphasize the modern aspects for a firm foundation for further study in the physical sciences. **4 (2-4) s; f; s**

PY 211, 212 General Physics**4 (3-3) f s; s**

Prerequisite: MA 111

A survey of general physics designed to provide a practical understanding of the fundamentals on which technology is based. Recitations, demonstrations, and laboratory work. PY 211, mechanics and heat; PY 212, sound, light, and electricity.

Staff

PY 221 College Physics**5 (5-0) f s**

Prerequisite: MA 111

Required in certain curricula of the School of Agriculture. An introduction to the origins of physical science, the fundamental principals of physics, and the many applications to modern technology. The important concepts in the classical areas of mechanics, heat, sound, electricity and magnetism, and light are presented, along with a brief survey of modern atomic physics. Lectures and demonstrations with class participation.

Staff

PY 223 Astronomy and Astrophysics**3 (3-0) s**

Prerequisite: PY 212 or PY 202

An introduction to descriptive and physical astronomy, with attention to the solar system, constellations, and star groups. The physical aspects of stars, such as brightness, temperature, energy and composition, are reviewed, along with the development of theories of galaxies and the universe. The nature of fusion sources of energies in stars is discussed.

Mr. Snyder

PY 300 Evaluation of Radiation Hazards**3 (2-2) f s**

Prerequisites: PY 202 and CH 102

An introductory course on radiation and protection from the hazards of radiation designed principally for non-physics students. Fundamentals of radiation, radioactivity, and dosimetry. Biological effects. Maximum permissible exposure limits and MPC in air and water. Shielding, handling methods, decontamination, waste disposal, and monitoring techniques.

Mr. Story

PY 401 Mechanics**4 (3-3) f**

Prerequisite: PY 202; Corequisite: MA 301

An intermediate course in theoretical mechanics. Dynamics of particles and rigid bodies with an introduction to advanced dynamics. Lagrange's equations and simple applications, Lorents transformations and an introduction to the theory of special relativity.

Mr. Moss

PY 402 Heat and Sound**4 (3-3) s**

Prerequisite: PY 302; Corequisite: MA 301

An intermediate course in the principles of thermodynamics, kinetic theory, heat transfer, and vibrations.

Mr. Moss

PY 403 Electricity and Magnetism**4 (3-3) f**

Prerequisite: PY 202; Corequisite: MA 301

An intermediate course in the fundamentals of static and dynamic electricity, and electromagnetic theory.

Mr. Doggett

PY 404 Optics**4 (3-3) s**

Prerequisite: PY 202; Corequisite: MA 301

An intermediate course in physical and geometrical optics.

Mr. Doggett

PY 407 Introduction to Modern Physics**3 (3-0) f s**

Prerequisites: PY 202, MA 202

A survey of the important developments in atomic and nuclear physics of this century. Among topics covered are: atomic and molecular structure, determination of properties of ions and fundamental particles, the origin of spectra, ion accelerators, and nuclear reactions.

Staff

PY 410 Nuclear Physics I**4 (3-3) f s**

Prerequisite: PY 407

An introduction to the properties of the nucleus, and the interaction of radiation with matter. A quantitative description is given of natural and artificial radioactivity, nuclear reactions, fission, fusion, and the structure of simple nuclei.

Mr. Waltner

PY 491 Senior Research**3-3**

Prerequisite: Senior Honors program standing, except with special permission
Investigations in physics under the guidance of staff members. Literature reviews, experimental measurements, or theoretical studies. A project report will be prepared. Staff

Courses for Graduates and Advanced Undergraduates**PY 501 Wave Mechanics****3 (3-0) s**

Prerequisites: PY 407, MA 511, and either PY 401 or PY 403

An introduction to the foundations of quantum and wave mechanics, with solutions of the problem of the free particle, harmonic oscillator, rigid rotating molecule, and the hydrogen atom. Approximation methods are developed for more complex atomic systems.

Mr. Cobb

PY 503 Introduction to Theoretical Physics**3 (3-0) f**

Prerequisites: PY 401 or PY 403, MA 511

An introductory course which offers preparation necessary for advanced graduate study, presented from the viewpoint of vector and tensor calculus. Particle dynamics, Lagrange's equations of motion, Hamilton's principle, mechanics of rigid bodies, topics in electromagnetic theory and relativity, with an elementary treatment of the motion of charged particles.

Mr. Freyre

PY 507 Advanced Atomic Physics**3 (3-0) f**

Prerequisites: PY 401 or PY 403, MA 511

A study of atomic structure and spectra, with emphasis on the analysis of spectra. Topics include the alkali spectra, multiplet structure, electron spin, hyperfine structure, moments, etc.

Mr. Cobb

PY 508 Ionization in Gases**3 (3-0) f**

Prerequisites: PY 401, PY 403, MA 301

Statistical theory of matter; excitation and ionization in gases; mobilities and conductivities; processes at solid surfaces in ionized gases; characteristic forms of electrical discharges in gases.

Mr. Bennett

PY 509 Plasma Physics**3 (3-0) s**

Prerequisite: PY 508

Individual and collective motion of charged particles in electric and magnetic fields and through ionized gases. Pinch effect, relativistic streams, conductivities, and runaway electrons. Astrophysical concepts and approximations. Properties of plasmas, including waves, confinement, instabilities and shocks, with applications.

Mr. Bennett

PY 510 Nuclear Physics II**4 (3-3) s**

Prerequisite: PY 410

The description and analysis of nuclear energy levels, meson theory, nuclear resonance, atomic and molecular magnetism, and cosmic radiation. Principles and experiments in neutron physics are discussed. In the laboratory work, emphasis is placed on gaining experience in independent research.

Mr. Waltner

PY 518 Radiation Hazard and Protection**3 (3-0) f s**

Prerequisite: PY 410

The hazards from external exposure to ionizing radiation are evaluated, and the factors influencing dosage due to internal exposure are investigated. Methods of providing protection are analyzed.

Mr. Underwood

PY 520 Physical Measurements in Radioactivity**3 (2-3) f s**

Prerequisite: PY 410

The principles of experimental measurements on radioactive materials are presented and demonstrated through laboratory work. Emphasis is placed on preparation of samples for precise quantitative study, detection of radiations, and analytical interpretation of experimental data.

Mr. Lynn

- PY 530 (NE 530) Introduction to Nuclear Reactor Theory** 3 (3-0) s
Prerequisites: PY 410, MA 401 or MA 511
The principles of neutron motion in matter, with emphasis on the analysis of the nuclear chain reactor. Slowing of neutrons, diffusion, space distributions of flux, conditions for criticality, group theories, and the time dependent behavior of fissionable assemblies. Staff
- PY 531 (NE 531) Nuclear Reactor Laboratory** 1 (0-3) f s
Corequisites: PY 518, PY 530
Observation and measurements of static and dynamic nuclear reactor behavior, the effectiveness of control and temperature, and correlation with theory. Experiments on the motion and detection of neutrons and gamma rays, with emphasis on the research uses of nuclear reactor radiations. Staff
- PY 541 Special Problems in Physics** 1-3 credits by arrangement
Prerequisite: Permission of department
Study and research in special topics of classical and modern physics. Experimental measurements with emphasis on the treatment and interpretation of data, literature surveys, or theoretical investigations. Graduate Staff
- PY 552 Introduction to the Structure of Solids** 3 (3-0) s
Prerequisites: PY 202, MA 202; PY 403 and PY 407 are recommended
Basic considerations of amorphous and crystalline solids, metals, conductors, and semi-conductors. Mr. Doggett
- PY 555 (MA 555) Principles of Astrodynamics** 3 (3-0)
Prerequisites: MA 511, either PY 401 or EM 312
The differential equations of motion in two-body problems and their integrals; orbit theory; integrals of the n-body problem; differential equations of motion of natural and artificial satellites and their approximate solutions. Mr. Musen
- PY 601, 602 Advanced General Physics** 3 (3-0) f s
Prerequisite: PY 503; Corequisite: MA 661
Mathematical and theoretical approach to relationships between the various branches of physics, with applications to mechanical, electrical, optical, thermal, and vibratory problems. The restricted theory of relativity, electrodynamics, the theory of electrons, classical field theory, and the general theory of relativity. Mr. Davis
- PY 610 Advanced Nuclear Physics** 3 (3-0) s
Prerequisites: PY 501, PY 510
Current hypotheses of nuclear structure and reactions including deuteron binding, neutron-proton scattering, the compound nucleus, stripping reactions, shell structure, beta decay, neutron resonances, and mesons. The use of neutrons in present-day nuclear research is emphasized. Staff
- PY 611 Quantum Mechanics** 3 (3-0) f
Prerequisites: PY 501, MA 512
Theory of quantum mechanics with applications to atomic and molecular structure, scattering phenomena, and a semi-classical treatment of the interaction of radiation with matter. Mr. Davis
- PY 612 Advanced Quantum Mechanics** 3 (3-0) s
Prerequisites: PY 601, PY 611
Dirac's relativistic electron theory, elementary scalar and vector meson field theory. Introduction to quantum electrodynamics and the general theory of quantized fields. Mr. Davis
- PY 617, 618 Principles of Health Physics Measurements** 2 (1-3) f s
Prerequisite: PY 510; Corequisites: PY 518, PY 520 recommended
The physical principles underlying health physics measurements are studied both theoretically and experimentally. The purpose of the course is to develop in the student an insight into the principles and problems involved in measuring radiation and determining dose. Mr. Underwood

PY 619 (NE 619) Reactor Theory and Analysis I**3 (3-0) f**

Prerequisite: PY 530

The theory of neutron slowing, resonance capture, Doppler effect, and thermal flux distributions in heterogeneous nuclear reactors. Analysis of reactor control by temperature, effects of localized and distributed absorbers, fission products, fuel consumption and production. One-velocity neutron transport theory.

Mr. Murray

PY 620 (NE 620) Nuclear Radiation Attenuation**3 (3-0) f**

Prerequisites: PY 530, MA 512

Physical theory of the behavior of neutrons, gamma-rays and charged particles in matter. Calculation of source terms, attenuation factors, heating rates, geometrical transformations, radiation streaming and radioactive decay effects required in the design of nuclear radiation shields for reactors, accelerators, and space vehicles. Transport theory of gamma-ray and neutron transmission through matter. Analysis of experimental techniques for obtaining shielding data.

Mr. Doggett

PY 621 Kinetic Theory of Gases**3 (3-0) f**

Prerequisites: PY 501, PY 503, and MA 512

The theory of molecular motion, including velocity and density distribution functions; the phenomena of viscosity, heat conduction, and diffusion; equations of state; fluctuations.

Mr. Freyre

PY 622 Statistical Mechanics**3 (3-0) s**

Prerequisites: PY 501, PY 503, MA 512, and PY 612

A treatment of statistical mechanics from both the classical and quantum points of view. Development of thermodynamic theories and application to atomic systems.

Mr. Freyre

PY 630 (NE 630) Reactor Theory and Analysis II**3 (3-0) s**

Prerequisite: PY 530

The theory of neutron multiplication in uniform media, with several dimensions, regions, and neutron energy groups. Reactor control by absorbers, time dependent reactor behavior, matrix treatment and perturbation theory, neutron thermalization, energy dependent neutron transport theory, and multigroup machine methods.

Mr. Murray

PY 631, 632 Atomic and Molecular Spectra**3 (3-0) f s**

Prerequisite: PY 501

Atomic models and coupling schemes; multiplet series, Zeeman, Paschen-Back and Stark effects; hyperfine structure and complex spectra; spectra of polyatomic molecules; infrared and Raman spectra. Applications adopted to the interest of the students in the course.

Staff

PY 670 Seminar**1 (0-3) f s**

Literature surveys and written and oral presentation of papers on current topics in (a) general physics, (b) nuclear physics, (c) ionic phenomena of space physics, (d) plasma physics, (e) non-inertial space mechanics.

Staff

PY 690 Research**Credits by arrangement**

Graduate students sufficiently prepared may undertake research in some selected field of Physics.

Staff

Plant Pathology

Courses for Undergraduates

PP 315 Plant Diseases**3 (2-3) f**

Prerequisite: BO 103

The nature and symptoms of disease in plants and the characteristics of important plant pathogenic nematodes, viruses, bacteria, and fungi are studied. An understanding of the important concepts and methods of disease control is developed, based on a knowledge of major types of plant diseases.

Mr. Powell

PP 318 Diseases of Forest Trees**3 (2-3) s**

Prerequisite: BO 103

The nature and symptoms of major types of tree diseases and the important characteristics of their casual agents are studied. Emphasis is placed on the influence of environmental factors on disease development as well as the basic principles and methods of control.

Mr. Kelman

Courses for Graduates and Advanced Undergraduates**PP 500 Advanced Plant Pathology****2 (2-0) s**

Prerequisite: PP 315 or equivalent

An advanced study of the economic importance, symptoms, disease cycles, epiphytology, and control of major groups of plant diseases. Students who register for this course are also required to register for either PP 501 or PP 502, or they may register for both.

Mr. Winstead

PP 501 Advanced Plant Pathology Laboratory-Field Crops Diseases**1 (0-3) s**

Prerequisite: PP 315 or equivalent

Laboratory course for students whose major interest is diseases of field crops to accompany lecture course in advanced plant pathology (PP 500). Diseases will be selected for study which are important on field crops. Either this course or PP 502 must be taken concurrently with PP 500.

Mr. Kline

PP 502 Advanced Plant Pathology Laboratory-Horticulture Crops Diseases**1 (0-3) s**

Prerequisite: PP 315 or equivalent

Laboratory course for students whose major interest is diseases of horticulture crops to accompany lecture course in advanced plant pathology (PP 500). Diseases will be selected for study which are important on fruit, ornamental and vegetable crops. Either this course or PP 501 must be taken concurrently with PP 500.

Mr. Winstead

PP 503 Diagnosis of Plant Diseases**Summer Session 3 (1-4)**

Prerequisites: One advanced course in Plant Pathology, permission of instructor

A study of techniques used in plant disease diagnosis with emphasis on diagnostic value of signs and symptoms for certain types of diseases. Consideration will be given to major sources of descriptive information on plant pathogens and the use of keys for the identification of fungi.

(Offered in 1962 and alternate years)

Mr. Hebert

Courses for Graduates Only**PP 601 Phytopathology I****4 (1-6) f**

Prerequisites: PP 315, permission of the instructor

A study of the principles of phytopathological research. The course is designed to apply the classical scientific method to disease investigation. Exercises will include appraising disease problems, reviewing literature, laboratory and greenhouse experiments, and the evaluation and presentation of data.

Mr. Apple

PP 602 Phytopathology II**4 (2-6) s**

Prerequisites: PP 315, permission of the instructor

The basic concepts of the etiology, pathology, epiphytology, and control of plant diseases.

Mr. Nusbaum

PP 604 Plant Parasitic Nematodes**2 (1-3) f**

Prerequisite: PP 315

A study of morphology, anatomy, physiology, and taxonomy of plant parasitic nematodes. Methods of isolating nematodes from soil and plant parts and other laboratory techniques used in the study and identification of nematodes will be considered.

Mrs. Triantaphyllou

PP 605 Plant Virology**3 (1-6) f**

Prerequisites: PP 315, GN 411, and a course in organic chemistry

A study of plant viruses including effects of host plants, transmission, classification, methods of purification, determination of properties, chemical nature, structure, and multiplication.

(Offered in 1963-64 and alternate years)

Mr. Hebert

PP 607 (GN 607) Genetics of Fungi**3 (3-0) f**

Prerequisites: GN 512 or equivalent, permission of instructor

Review of major contributions in fungus genetics with emphasis on principles and theories that have evolved in recent developments.

(Offered in 1962-63 and alternate years)

Mr. Nelson

PP 608 History of Phytopathology**1 (1-0) f**

Prerequisites: PP 315, permission of instructor

Development of the science of phytopathology from its early beginning to the early part of the 20th century.

(Offered in 1963-64 and alternate years)

Mr. Ellis

PP 609 Current Phytopathological Research under Field Conditions**2 (1-3) s**

Prerequisite: Graduate standing

Study of concepts involved, procedures used, and evaluation made in current phytopathological research by Plant Pathology staff. Visits to various Research Stations will be made by the class.

Mr. Clayton

PP 611 Nematode Diseases of Plants**3 (1-4) s**

Prerequisite: PP 604

A study of plant diseases caused by nematodes. Special consideration will be given to host-parasite relationships, host ranges, and life cycles of the more important economic species. Principles and methods of control will be considered.

Mr. Sasser

PP 612 Plant Pathogenesis**3 (2-3) f**

Prerequisite: PP 500

A study of interactions of pathogens and susceptible plants. The following major topics will be considered: hydrolytic enzyme systems involved in tissue disintegration; role of enzymes, polysaccharides, and toxins in wilting phenomena; mode of action of toxins in altering plant metabolism; role of growth regulators in hypertrophic responses; alterations in respiration and other physiological processes during pathogenesis; and nature and biochemical basis for disease resistance.

(Offered in 1962-63 and alternate years)

Mr. Kelman

PP 615 Research in Plant Pathology**Credits by arrangement**

Prerequisites: Graduate standing and consent of instructor

Original research in plant pathology.

Graduate Staff

PP 625 Seminar in Plant Pathology**1 (1-0) f s**

Prerequisite: Consent of seminar chairman

Discussion of phytopathological topics selected and assigned by seminar chairman.

Graduate Staff

Political Science

(See History and Political Science)

Poultry Science

Courses for Undergraduates

PO 201 Poultry Production **4 (3-3) f s**
Principles of broiler, market eggs, hatching egg and turkey productions. Classes, breeds and varieties identification of chickens and turkeys. Breeding, incubation, raising, housing, feeding, and parasite control, marketing of chickens, eggs and turkeys. Messrs. Brown, Martin

PO 301 Poultry Quality Evaluations **2 (1-3) f**
Prerequisite: PO 201
Elective for others with permission of instructor.
Evaluation of poultry for production and standard qualities; determining market, poultry and eggs. Mr. Brown

PO 351 Poultry Grading **1 (0-3) f**
Prerequisite: PO 301
Laboratory experience in determining federal grades of poultry and eggs. Mr. Brown

PO 401 Poultry Diseases **4 (3-3) s**
The major infectious, non-infectious and parasitic diseases of poultry are studied with respect to economic importance, etiology, susceptibility, dissemination, symptoms and lesions. Emphasis is placed upon practices necessary for the prevention, control and treatment of each disease. Mr. Craig

PO 402 Commercial Poultry Enterprises **4 (3-2) s**
Required of majors in Poultry Science
Elective for others with permission of instructor.
Principles of incubation of chicken and turkey eggs; hatchery management; organization and development of plans for the operation and maintenance of a commercial poultry farm for meat and egg production; study of the types of buildings, equipment and methods of management currently employed by successful poultrymen in North Carolina. Problem. Mr. Brown

PO 403 Poultry Seminar **1 (1-0) f s**
Current topics and problems relating to Poultry Science and to the poultry industry are assigned for oral report and discussion. Two semesters. Staff

PO 404 (FS 404) Poultry Products **3 (2-3) f**
Prerequisites: ZO 103, CH 101
Required of majors in Poultry Science.
Elective for others with permission of instructor.
Selection, processing, grading, and packaging poultry meat and eggs. Factors involved in preservation of poultry meat and eggs. Mr. Fromm

Courses for Graduates and Advanced Undergraduates

PO 520 Poultry Breeding **3 (2-3) f**
Prerequisite: GN 411
Required of Poultry Science majors.
Application of genetic principles to poultry breeding, considering physical traits and physiological characteristics—feather patterns, egg production, hatchability, growth, body conformation and utility. Mr. Martin

PO 521 Poultry Nutrition**3 (2-3) f**

Prerequisite: CH 220 or 221

Required of majors in Poultry Science; elective for others.

Elective for others with permission of instructor.

A study of proteins, carbohydrates, fats, minerals and vitamins required for growth, egg production and reproduction in the chicken and turkey. Symptoms and lesions induced by nutritional deficiencies. Compounding different types of poultry mashes and methods of feeding these mashes. The production of certain vitamin and mineral deficiencies in chicks for observation and examination.

Mr. Kelly

PO 522 Endocrinology of the Fowl**3 (2-3) s**

Prerequisite: ZO 301 or equivalent

The endocrine system is studied with respect to its physiological importance in such intricate processes as metabolism, growth and reproduction. Emphasis is placed upon this system for the fowl, but mammalian examples are also used to illustrate basic concepts of the science. The interests of the students will be considered in the selection of illustrative material.

Mr. Garren

Courses for Graduates Only

Graduate courses may not be offered if registration for the course is too low or if the faculty or facilities become unavailable.

PO 602 Advanced Poultry Nutrition**3 (0-6) arrange**

Prerequisites: PO 521, CH 551 or equivalent

Students taking this course will conduct a research problem in poultry nutrition. This problem will involve the designing and carrying out of microbiological and chick experiments. The students will obtain practice in correlating results obtained in microbiological and chick assays.

Mr. Hill

PO 611 Poultry Research**1-6 (arrange) f s**

Prerequisite: Graduate standing

Appraisal of present research, critical study of some particular problem involving original investigation. Problems in poultry breeding, nutrition, disease endocrinology, hematology or microbiology. Credits: A maximum of six is allowed toward a master's degree.

Graduate Staff

PO 613 Special Problems in Poultry Science**1-6 (arrange) f s**

Prerequisite: Graduate standing

Specific problems of study are assigned in various phases of poultry science.

Graduate Staff

Product Design**PD 201, 202 Product Design and Orientation****4 (3-6) f s**

Prerequisite: DN 102

Required of second year students in Product Design

Elementary problems in form and function. Transitional implications of handcrafted and mass-produced objects, in various materials. Demonstrations by specialists in graphics, photography, rendering, modeling, typography, and technical illustration. Visits to design departments of local industries.

Mr. Baron

PD 301, 302 Product Design**6 (3-12) f s**

Prerequisites: PD 202, PY 212

Required of third year students in Product Design

Manufacturing and structural considerations in the design of a wide range of products.

Mr. Papanek

PD 331,332 Materials and Processes

3 (3-0) f s

Required of third year students in Product Design

Study of the basic materials of industry, from raw materials and their properties to fabrication techniques, design criteria and potential.

PD 401, 402 Advanced Product Design

6 (3-12) f s

Prerequisites: PD 302, PD 332

Continuation of product design into more complex systems. Emphasis is placed on functional innovation and integration of form and structure. Thorough analysis of fabrication by models and sketches.

Mr. Macomber

PD 422 Office and Industrial Practice

2 (2-0) s

Prerequisite: PD 302

Required for graduation in Product Design

Study of the ethics, organization, and procedures of professional product design practice; patent law.

PD 441, 442 Design Analysis

2 (2-0) f s

Prerequisite: PSY 200

Required of fourth year students in Product Design

Seminar on imaginative problem solving. Individual and group operational techniques in the spectrum of creative thought.

Mr. Papanek

PD 501 Advanced Product Design

8 (3-12) f

Prerequisite: PD 402

Required of fifth year students in Product Design

Continuation of emphasis on new product design and development, with reference to current developments in automatic fabrication and assembly.

Mr. Papanek

PD 502 Product Design Thesis

9 (3-18) s

Prerequisites: PD 501, PD 442, IE series

A one semester project chosen by the student in his area of major interest, with faculty guidance. Independent research and development of functional contribution, including complete programming of manufacture and distribution systems appropriate to the design.

Mr. Papanek

Psychology

(See Education)

Recreation and Park Administration

(See Education)

Rural Sociology

*Courses for Undergraduates

RS 204 North Carolina Rural Life

2 (2-0) f s

Introduction to the specific patterns of rural living in North Carolina; structure and function of the groups in which North Carolina rural people participate; major social institutions and their related problems; and organized efforts to improve community life in the State. Staff

* Additional courses, suitable for rural sociology majors and graduate students, are listed in the offerings of the Department of Sociology and Anthropology. Other sociology courses especially suitable for advanced students and graduates are offered by the Department of Sociology and Anthropology of the University at Chapel Hill.

RS 301 Sociology of Rural Life**3 (3-0) f s**

Prerequisite: Completion of the freshman year

A systematic sociological analysis of the characteristics, institutions and problems of rural life. Part I is a brief description of the basic concepts, the theoretical framework and the method of analysis of institutions and problems. Part II consists of systematic analyses of the major social institutions and their respective problems. Part III portrays the role of the community as an area of institutional functioning and societal integration.

Staff

RS 321 Introduction to Social Research**3 (3-0) f s**

Prerequisite: RS 301

Designed to give the student a basic understanding of the methods of sociological research. Reviews the scientific method and its application to the design of social research including the collection, analysis, and interpretation of social data. Appropriate ways of presenting the findings and of making the greatest use of the data are presented. Critical and objective thinking are stressed throughout the course.

Messrs. Young and Mayo

RS 322 Introduction to Rural Social Work**3 (3-0) s**

Prerequisite: RS 301 or permission of the instructor

Constructed to acquaint the preprofessional student with the subject matter of social work as well as its related professional fields. Attention is given to three major areas: (1) case work in various settings, (2) group work, and (3) community organization. Public and private agencies which employ persons trained in social work are studied.

Mr. Mayo

RS 441 Rural Social Pathology**3 (3-0) f**

Prerequisite: RS 301 or permission of the instructor

A study of major social problems in modern society: physical and mental health, family instability, crime and penology, and minority group problems. A framework for analysis and understanding is presented and stressed throughout including a positive approach for prevention.

Mr. Mayo

RS 442 Rural Social Structure**3 (3-0) s**

Prerequisite: RS 301 or permission of the instructor

Social structure is viewed in its two major dimensions: (1) vertically through the concepts of social stratification; and (2) horizontally as a set of basic social institutions interacting by means of a system of concrete social organizations. Particular attention is given to the place of the rural segment in the total social system. The bases of social cohesion which permit diversity within a functioning whole are examined.

Mr. McCann

*** Courses for Graduates and Advanced Undergraduates****RS 511 Rural Population Problems****3 (3-0) f**

Prerequisite: RS 301

A study of population growth, rates of change and distribution. Considerable attention is given to the functional roles of population, i. e., age, sex, race, residence, occupation, marital status and education. The dynamic aspects of population are stressed: fertility, mortality and migration. Population policy is analyzed in relation to national and international goals. A world view is stressed throughout.

Mr. Mayo

RS 512 Rural Family Living**3 (3-0) s**

Prerequisite: RS 301

Values, patterns and levels of rural family living. Differentials and factors related thereto in the world, the nation and North Carolina. Analysis of selection problems, programs, policies and methods of study.

Mr. Hamilton

RS 513 Community Organization**3 (3-0) f**

Prerequisite: RS 301

Community organization is viewed as a process of bringing about desirable changes in community life. Community needs and resources available to meet these needs are studied. Democratic processes in community action and principles of community organization are stressed along with techniques and procedures. The roles of leaders, both lay and professional, in community development are analyzed.

Mr. Mayo

* See footnote on page 366.

RS 523 Sociological Analysis of Agricultural Land Tenure Systems**3 (3-0) f**

Prerequisite: Permission of the instructor

A systematic sociological analysis of the major agricultural land tenure systems of the world with major emphasis on the problems of family farm ownership and tenancy in the United States.

Mr. Hamilton

RS 534 (HI 534) Farmers' Movements**3 (3-0) s**

Prerequisite: Three hours of Sociology

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist Revolt, the Farmers' Union, the Farm Bureau, the Equity societies, the Non-partisan League, cooperative marketing, government programs and present problems.

Mr. Noblin

RS 541 Social Agencies and Programs**3 (3-0) s**

Prerequisite: Three hours of Sociology

Study of social agencies and programs and their implementation through specific organizations in dynamic relation with the people whom they serve. Consideration is given to the relation of these agencies and programs to community structure and forces in rural society; coordination of the several types of agencies and programs; professional leadership in the local community; and problems of stimulating local leadership and participation.

Mr. Mayo

Courses for Graduates Only**RS 611 Research Methods in Sociology****3 (3-0) f**

Prerequisite: Permission of the instructor

Designed to give the student a mature insight into the nature of scientific research in sociology. Assesses the nature and purpose of research designs, the interrelationship of theory and research, the use of selected techniques and their relation to research designs, and the use of modern tabulation equipment in research.

Mr. McCann

RS 621 Rural Social Psychology**3 (3-0) f**

Prerequisite: Permission of the instructor

Treats the genetic development of the rural personality and the interrelationship of the individual and the rural society. Studies the social psychological factors related to rural leadership, morale, social organization and social change, and examines the attitudes and opinions of rural people on current local and national issues.

Mr. McCann

RS 631 Population Analysis**3 (3-0) s**

Prerequisite: Permission of the instructor

Methods of describing, analyzing and presenting data on human populations: distribution, characteristics, natural increase, migration and trends in relation to resources.

Mr. Hamilton

RS 632 Rural Family**3 (3-0) f**

Prerequisite: Permission of the instructor

Emphasis is placed on the development of an adequate sociological frame of reference for family analysis; on discovering both the uniquely-cultural and common-human aspects of the family by means of cross-cultural comparisons; on historical explanations for variability in American families with especial concern for the rural family; and on analyzing patterns of family stability and effectiveness.

Mr. Hamilton

RS 633 The Rural Community**3 (3-0) s**

Prerequisite: Permission of the instructor

The rural community is viewed in sociological perspective as a functional entity. A method of analysis is presented and applied to eight "dimensions," with emphasis on the unique types of understanding to be derived from measuring each dimension. Finally, the effect of change on community integration and development is analyzed.

Mr. Mayo

RS 641 Statistics in Sociology**3 (3-0) f**

Prerequisite: ST 513

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments and techniques for the more frequently encountered problems and forms of data.

Mr. Hamilton

RS 642 Research in Rural Sociology

**Credits by arrangement
(Maximum of six credits)**

Prerequisite: Permission of chairman of graduate study committee.

Planning and execution of research, and preparation of manuscript under supervision of graduate committee.

RS 653 Theory and Development of Rural Sociology

3 (3-0) s

Prerequisite: Permission of the instructor

Required of all master's and doctoral candidates in Rural Sociology and recommended for all graduate minors. Designed to meet two objectives: (1) to introduce the student to the study of current sociological theory and (2) to survey events and trends in the historical development of rural sociology.

Mr. Hamilton

RS 671 Seminar

Credits by arrangement

Appraisal of current literature; presentation of research papers by students; progress reports on departmental research; review of developing research methods and plans; reports from scientific meetings and conferences; other professional matters. (A maximum of three credits is allowed toward the master's degree, and six credits toward the doctorate.)

Graduate Staff

Social Studies

SS 301, 302 Science and Civilization

3 (3-0) f s

Prerequisites: For engineering students, ENG 205, HI 205, EC 205; for others, permission of the department

An examination of the major concepts, methods and values that characterize modern thought in the fields of physical science, the humanities and the social sciences. The course utilizes the student's previous training, plus materials from the history and philosophy of science and the history of technology to demonstrate the essential interrelatedness of scientific, social, and aesthetic activity.

SS 491, 492 Contemporary Issues

3 (3-0) f s

Prerequisites: For engineering students, SS 301, 302; for others, permission of the department

This course deals with concrete problems as they arise from day to day in the world of public affairs. These problems are studied and discussed in the context of a search for a more realistic definition of the limits of freedom and authority. Text materials are books, magazines and newspapers.

Sociology

(Also see Anthropology)

Courses for Undergraduates

SOC 202 Principles of Sociology

3 (3-0) f s

Introduction to the scientific study of man's behavior in relation to other men, the general laws affecting the organization of such relationships and the effects of social life on human personality and behavior.

SOC 301 Human Behavior

3 (3-0) f s

A study of the effects of social interaction upon individual behavior and personality; collective attitudes and behavior as products of group experience; analysis of fashions and fads, crowds, mobs, publics, social movements.

SOC 302 Public Relations and Modern Society

3 (3-0) f s

The development and composition of social groups and the processes involved in group organization. These are analyzed in terms of the expanding functions of mass communication in contemporary society.

SOC 303 Current Social Problems**3 (3-0) f s**

Study of the social and cultural aspects of specific problems such as crime, divorce, race conflict, illness, poverty, housing, recreation and personality adjustment to demonstrate the basic integration of society and community life.

SOC 304 Contemporary Family Life**3 (3-0) f s**

The social organization of the family with special attention to socialization, marital choice, kinship relations, and the social changes affecting family structure and functions.

SOC 305 Race Relations**3 (3-0) f s**

Analysis of race relationships both in the United States and throughout the world with particular emphasis on factors producing the changes taking place at the present time.

SOC 306 Criminology**3 (3-0) f s**

The study of causation, treatment, prevention, and control of criminality and juvenile delinquency. Special emphasis is placed on socio-cultural theories of causation and on the examination of court and correctional systems for adults and juveniles. Arranged field trips.

SOC 401 Human Relations in Industrial Society**3 (3-0) f s**

Prerequisite: Senior standing or permission of instructor

Studies in the sociology of occupations, professions and work, with special attention to human relations in industrial plants and other work situations.

SOC 402 Urban Sociology**3 (3-0) f s**

Prerequisites: SOC 202 and permission of instructor

A study of the factors in the growth of cities; the relationship between the design of cities and their social organization; detailed analysis of new developments in the serving of human needs. City and regional planning.

SOC 411 Community Relationships**3 (3-0) f s**

Prerequisites: SOC 202 and permission of instructor

A survey of the institutions, organizations, and agencies found in modern communities; social problems and conditions with which they deal; their interrelationship and the trend toward over-all planning.

SOC 412 Introduction to Social Work**3 (3-0) f s**

Prerequisites: SOC 202 and permission of instructor

A course designed to acquaint students with the various types of public and private social work and with remedial and preventive programs in applied sociology, social psychiatry, health, public welfare, and recreation.

SOC 414 Social Structure**3 (3-0) f s**

Prerequisites: Six hours in Sociology and permission of instructor

Studies of the major social institutions and systems of stratification; the organization of social systems as, for example, religion, education, and government; the functions of such structural components as age and sex groups, vocational and professional groups, and social classes.

SOC 416 Research Methods**3 (3-0) f s**

Prerequisites: Nine hours in Sociology and permission of instructor

An analysis of the principle methods of social research; the development of experiments; schedules and questionnaires; the measurement of behavior.

Courses for Graduates and Advanced Undergraduates

SOC 501 Leadership**3 (3-0) f s**

Prerequisites: SOC 202, SOC 301 or equivalent

A study of leadership in various fields of American life; analysis of the various factors associated with leadership, with particular attention given to recreational, scientific and executive leadership problems.

SOC 502 Society, Culture, and Personality**3 (3-0) f s**

Prerequisites: SOC 202, SOC 301 or equivalent

Human personality from its origins in primary groups through its development in secondary contacts and its ultimate integration with social norms. Emphasis is placed upon the normal personality and the adjustment of the individual to our society and our culture. Dynamics of personality and character structure are analyzed in terms of the general culture patterns and social institutions of society.

SOC 505 The Sociology of Rehabilitation**3 (3-0) f s**

Prerequisites: SOC 202, SOC 301 or equivalent

The course stresses the social and cultural implications of the rehabilitation approach. Emphasis is placed upon the social and personal problems of physically and mentally handicapped persons. The interrelationships of the major social environments are considered at length in this regard. Objectives of the rehabilitation processes are analyzed in terms of the sociology of work. A major portion of the course is devoted to rehabilitation as a profession, particular attention being given to the diverse roles of specialists in this field.

SOC 510 Industrial Sociology**3 (3-0) f s**

Prerequisites: SOC 202, SOC 301 or equivalent

Industrial relations analyzed as group behavior with a complex and dynamic network of rights, obligations and rules; the social system as an interdependent part of total community life; background and functioning of industrialization studied as social and cultural phenomena; analysis of specific problems of industry.

SOC 511 Social Theory**3 (3-0) f s**

Prerequisites: Nine semester hours in Sociology, or equivalent work in related fields, and permission of instructor.

The study of social theories from the earliest recorded thinkers to those of modern times; the evolution of theories of the individual, groups, culture, community, and society; the modern development of sociology and anthropology, and interpretive systems accompanying these developments.

SOC 515 Research in Applied Sociology**3 (3-0) f s**

Prerequisites: SOC 202, SOC 301 or equivalent

Individual research problems in applied fields of sociology, such as problems of the family, population and social work; rural-urban relations; student success; American leadership.

Soil Science

Courses for Undergraduates

SSC 200 Soils**4 (3-3) f s**

Prerequisite: CH 103 or CH 107. MIG 120 is recommended but not required

The fundamental properties of soils and their relation to proper soil management. Geological information important to an understanding of soils and agriculture is presented for a better understanding of the interrelationship which exists between soils and management.

Mr. Younts

SSC 302 Soils and Plant Growth**4 (3-3) s**

Prerequisites: SSC 200, BO 103, PY 211

An examination of the fundamental chemical, physical and microbiological characteristics of soils, as related to crop production. The chemical and mineralogical composition of soils; ion exchange, soil reaction and the solubilities of plant nutrients; transformations between organic and inorganic forms of plant nutrients; water and air relations in soils; lecture—demonstrations will be used to illustrate fundamental soil properties and to acquaint students with methods used in the study of soils.

Mr. McCollum

SSC 341 Soil Fertility and Fertilizers**3 (3-0) f**

Prerequisites: SSC 200, BO 103

History of plant nutrition and soil fertility. Plant nutrition and growth as related to crop fertilization. Fertilizer materials, their manufacture, properties and usage. Fertilizer practices as related to a sound soil management program.

Mr. Younts

SSC 452 Soil Classification**3 (2-3) s**

Prerequisite: SSC 200

The processes involved in the origin of soil and its properties are explained. Logical schemes of soil classification and soil management are developed based upon soil profile properties as operational criteria. The laboratories and field trips are designed to teach the student how to recognize certain soil profile properties and inferences which may be drawn from them.

Mr. Cooke

SSC 461 Soil Conservation and Management**3 (3-0) f**

Prerequisite: SSC 200 or permission of instructor

The history and status of erosion and fertility conditions; the economic and social aspects of soil conservation; the effects of climatic factors, vegetation (forest, sod crops, cover crops and rotations), soil properties, and other management practices on soil conservation and fertility maintenance.

Mr. Lutz

SSC 480 Senior Seminar**1 (1-0) f s**

Prerequisite: Senior standing in the School of Agriculture

A student participation course in which the student will prepare and present thorough and documented discussions of important soil topics.

Staff

Courses for Graduates and Advanced Undergraduates

SSC 511 Soil Physics**4 (3-3) f**

Prerequisites: SSC 200 and PY 212

Physical constitution and analyses; soil structure, soil water, soil air and soil temperature in relation to plant growth.

Mr. Lutz

SSC 522 Soil Chemistry**4 (3-3) s**

Prerequisites: SSC 200, SSC 553 and CH 433 or permission of instructor.

A consideration of the chemical and colloidal properties of clay and soil systems, including ion exchange and retention, soil solution reactions, solvation of clays, and electrokinetic properties of clay-water systems.

(Offered in 1964 and alternate years thereafter)

Mr. Weed

SSC 524 Mass Spectrometry**2 (1-3) s**

Prerequisites: SSC 302 and CH 433 or permission of instructor

An examination of theoretical and analytical aspects of mass spectrometry and stable isotopic techniques; application of these methods to biochemical research.

(Offered in 1963 and alternate years thereafter)

Mr. Volk

SSC 532 Soil Microbiology**3 (3-0) s**

Prerequisites: SSC 302, BO 312 and CH 220

The more important microbiological processes that occur in soils; decomposition of organic materials, ammonification, nitrification, and nitrogen fixation.

(Offered in 1963 and alternate years thereafter)

Mr. Bartholomew

SSC 541 Soil Fertility**3 (3-0)**

Prerequisites: SSC 302 and SSC 341

Soil conditions affecting plant growth and the chemistry of soil and fertilizer interrelationships. Factors affecting the availability of nutrients. Methods for measuring nutrient availability.

Mr. Kamprath

SSC 551 Soil Morphology, Genesis and Classification**(3-0)**

Prerequisites: SSC 200, SSC 302, or SSC 341 and MIG 120

Morphology: study of concepts of soil horizons and soil profiles and chemical, physical and mineralogical parameters useful in characterizing them. Genesis: critical study of soil forming factors and processes. Classification: critical evaluation of historical development and present concepts of soil taxonomy with particular reference to great soil groups as well as discussion of logical basis of soil classification.

(Offered in 1962 and alternate years thereafter)

Mr. McCracken

SSC 553 Soil Mineralogy**3 (2-3) f**

Prerequisites: SSC 200, SSC 341 and MIG 330 or permission of instructor

Composition, structure, classification, identification, origin, occurrence, and significance of soil minerals with emphasis on primary weatherable silicates, layer silicate clays, and sesquioxides.
Messrs. McCracken and Weed

SSC 560 North Carolina Soils and Their Management**3 (Summer)**

Prerequisites: SSC 200, SSC 302 or SSC 341

Field studies of selected soil series in the Coastal Plain, Piedmont and Mountain areas of North Carolina. Discussion of management practices that should be associated with the various soils under different types of farming.

(Offered in Summer 1963 and alternate years thereafter).

Messrs. McCracken, Fitts and Spain

SSC 570 Special Problems**Credits by arrangement.**

Prerequisites: SSC 200 and SSC 302

Special problems in various phases of soils. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.
Staff

Courses for Graduate Students Only**SSC 622 Physical and Chemical Properties of Soils****0-4**

Prerequisites: SSC 511, SSC 522, CH 433, MA 301 or permission of instructor

An examination in depth of current ideas concerning the physics and chemistry of soil and clay systems. Topics will include ion exchange, molecular adsorption, electrokinetics, relations between mineral structures and their physical and chemical properties, and the properties of adsorbed water. Emphasis will be determined by student interest and by current literature.

(Offered in 1963 and alternate years thereafter).

Messrs. Miller and Weed

SSC 651 Pedology**2 or 3-0 (By arrangement)**

Prerequisites: SSC 522 and SSC 511

A critical study of current theories and concepts in soil genesis and morphology; detailed study of soil taxonomy. Topics include weathering and clay mineral genesis as related to soil morphology and genesis, functional analyses of soil genesis, properties of and processes responsible for soil profiles formed under various sets of soil forming factors, classification theory and logic as applied to soil classification, structure of soil classification schemes. Any of these topics may be emphasized at the expense of the others according to interests of students.

(Offered in 1964 and alternate years thereafter).

Mr. McCracken

SSC 672 Soil Properties and Plant Development**0-4**

Prerequisites: CH 551, SSC 522 or equivalents

A detailed examination of the effects of soil factors in the development of crop plants. Segments of the course will treat (1) soil transformation processes of both organic and inorganic constituents, (2) concepts of nutrient availability and (3) the relation of plant development indices to specific soil properties.

(Offered in 1964 and alternate years thereafter).

Messrs. Jackson, Bartholomew and Davey

SSC 680 Seminar**1 (1-0) f s**

Prerequisite: Graduate standing in Soil Science

Scientific articles, progress reports in research and special problems of interest to agronomists reviewed and discussed.

A maximum of two credits is allowed toward the master's degree, but any number toward the doctorate.
Graduate Staff

SSC 690 Research**Credits by arrangement**

Prerequisite: Graduate standing in Soil Science

A maximum of six credits is allowed toward the master's degree, but any number toward the doctorate. Graduate Staff

Statistics

(See Experimental Statistics)

Textiles**Courses for Undergraduates****Textile Technology****TX 221 Fundamentals of Textiles****3 (2-2) f s**

Prerequisite: MA 101 or MA 111, or equivalent

Required of students in all Textile curricula

Nomenclature, flow of processes through weaving, yarn numbering systems, basic calculations of machinery constants, textile production, and yarn and fabric structures. Two 1-hour lectures and one 2-hour laboratory period per week. Messrs. Lassiter, Moser

TX 261 Fabric Structure**3 (2-2) f s**

Prerequisite: TX 221

Required of students in all Textile curricula

A study of the fundamental principles of fabric construction and weave formation of selected staple fabrics. Laboratory instruction is given in physical analysis and design techniques essential to the development of technical specifications for the production of woven fabrics. Two 1-hour lectures and one 2-hour laboratory period per week. Messrs. Berry, Klibbe

TX 271 Upholstery Fabrics**2 (2-0) s**

Required of students in Furniture Manufacturing

Textile students may not take this course for degree credit.

A study of the basic principles of textile manufacturing and structure of woven fabrics, identification of classic decorative fabrics used for upholstered furniture coverings, with emphasis on nomenclature and physical properties and textile trade customs. Two 1-hour lecture periods per week Mr. Moser

TX 281 Fiber Quality**3 (2-2) f s**

Prerequisite: TX 221

Required of students in all Textile curricula

A study of the physical, chemical and aesthetic properties of the major textile fibers. Included are methods of measuring fiber properties and interpretation of test results, complete analysis of typical stress-strain curves, influence of moisture on physical properties, and fiber identification. Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Hamby, Wiggins

TX 303 Fiber and Yarn Technology**4 (3-2) f s**

Prerequisite: TX 281

Required of all students in the Textile Technology curriculum.

Technological and scientific concepts of fiber and yarn structures and modifications resulting from processing. For all systems, the opening, cleaning and carding actions; blending of fibers stressing intimacy, methods, effectiveness, and influence on product; yarn structure as a factor of blend, fiber distribution, twist in its many ramifications, spinning limits; composite yarn structures; bulk and yarn coverage; drafting methods, types, and limits. Three 1-hour lectures and one 2-hour laboratory period per week. Messrs. Hamby, Pardue, Lassiter

TX 304 Fiber and Yarn Technology

Prerequisite: TX 303

4 (3-2) f s

Required of students in Fiber and Yarn Technology and General Textiles
Elective for others.

Technological and economic aspects of fiber and yarn processing including; packaging, production and efficiency levels; specialized yarn processes such as combing with economic justifications; design and use of specialty novelty yarns; economical and mechanical limitations of textile equipment. Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Stuckey, Pardue, Hamby

TX 327 Textile Testing

Prerequisites: TX 303, TX 365, ST 361

4 (3-2) f s

Required of students in all Textile curricula

Quality control methods for textile processing, with emphasis on the measurement by laboratory instruments and techniques, and including a study of the mechanical and natural influences involved. Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Hamby, Stuckey

TX 365 Fabric Technology

Prerequisites: TX 261, TX 281

4 (3-2) f s

Required of students in the Textile Technology curriculum

Geometry of fabrics; properties of fabrics dependent on the weave, geometrical configurations and yarn properties, such as compressional resilience, air and water permeability, water repellency, creasing tendencies, abrasion properties, hand, and drape. Mechanical properties of fabrics; transmission of heat, moisture, and air. Yarn additives and treatments; slashing and warp preparation, materials, and techniques. Non-woven structures. Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Berry, Porter

TX 366 Fabric Technology

Prerequisite: TX 365

4 (3-2) f s

Required of students in Fabric Technology and General Textiles

Elective for others

Technology and economic aspects of fabric construction, design, and production. The classical weaves, their design, inherent uses, production techniques, and types of looms required. Marketing methods, with Worth Street and other trade rules and regulations. The loom as a production unit: types, nomenclature, basic and special mechanisms. Mill balance. Fabric defects. Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Moser, Berry

TX 430 Continuous Filament Yarns

Prerequisite: TX 303

3 (2-2) f s

Required of Students in Fiber and Yarn Technology and Knitting Technology.

Elective for others

A study of properties and processes applicable only to filament yarns such as texturizing and bulking. Detailed studies of throwing systems, engineering requirements of equipment, and yarn property changes resulting from processing. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Wiggins

TX 436 Staple Fiber Processing

Prerequisite: TX 303

3 (2-2) f s

Required of students in Fiber and Yarn Technology.

Elective for others

A study of special systems of processing long staple, natural and man-made fibers, including woolen, worsted, direct spinning, Turbo Stapler, or Pacific Converter, and silver to yarn methods. New concepts and research findings as applied to all yarn processes. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Pardue

TX 478 Design and Weaving

Prerequisite: TX 366

3 (2-2) f s

Required of students in Fabric Technology

Elective for others

Advanced study of special weave formations and the techniques and equipment necessary to form these fabrics. Studies in depth of new developments and research findings in the areas of warp preparation, design, weaving, and fabric formation. Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Porter, Berry

TX 485 Mill Design and Organization**3 (2-2) s**

Prerequisites: TX 303, TX 365

Required of students in the Textile Technology curriculum. Beginning in the 1963 fall semester, for seniors in final semester only

Application of economic principles of textile factoring, hedging, and other buying and selling problems. Inventory control, organization, and departmental functions of textile companies.

Technical problems of plant site selection, plant design and layout, and selection of equipment.

Layout of a mill by each student. Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Grover, Pardue

TX 490 Development Project I**1 (0-2) f s**

Prerequisites: Senior standing and permission of instructor

Elective

A problem of independent study assigned to seniors in the major field of study serving also as the laboratory period for senior level courses. One 2-hour laboratory period per week.

Staff

Knitting Technology**TX 342 Knitting Principles****2 (2-0) f s**

Prerequisites: TX 281 and TX 221

Required of juniors in Textile Technology and Knitting Technology. A basic course in knitted fabric construction with emphasis on the many types of stitch structures found in knitted textiles. Attention is also devoted to the equipment and mechanisms necessary to produce these structures. Two 1-hour lecture periods per week.

Messrs. Li, Middleton

TX 441 Flat Knitting**3 (2-2) f**

Prerequisite: TX 342

Required of seniors in Knitting Technology

Elective for others

A study of the leading types of flat knitting machines including warp knitting machines, design possibilities and fabric adaptability. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 442 Knitted Fabrics**3 (2-2) f s**

Prerequisite: TX 342

Required of seniors in Textile Technology and Knitting Technology

Design, analysis, and production of knitted fabrics, including flat, circular, and warp types. The economic aspects of the knitting process as a method of clothing production. Introduction to garment design, production and marketing. Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Shinn, Middleton

TX 444 Garment Manufacture**3 (2-2) s**

Prerequisite: TX 342

Required of seniors in Knitting Technology

Elective for others

A study of circular latch needle and spring needle machines for knitted fabric production. Styling, cutting and seaming of the basic garment types for underwear and outerwear; standard seam types; high-speed sewing machines. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 447, 448 Advanced Knitting Laboratory**2 (0-4) f s**

Prerequisite: TX 342

Required of seniors in Knitting Technology

Elective for others

Systematic study of circular hosiery mechanisms; hosiery types and constructions. Seamless hosiery production methods utilizing the newer synthetic yarns, toe closing methods, finishing processes, and marketing are emphasized.

Messrs. Li, Shinn

TX 449 Tricot Knitting

Prerequisite: TX 342

3 (2-2) s

Elective for juniors and seniors

A study of basic types of tricot knitting machines with emphasis on mechanisms and fabrics. Attention is given to warp preparation methods applicable to the tricot machine, the characteristics of yarn made from natural and synthetic fibers as they affect processing into warp knitted fabrics, machine settings for proper qualities and ratios; economics of warp knitting, and end uses. Attention is given to fabric design and analysis. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 483 Textile Cost Methods

Prerequisites: TX 303, TX 365

2 (2-0) f s

Required of seniors in Textile Technology except those in Management.

A study of cost methods applicable to textile mills with emphasis on calculations, the preparation of cost reports, and their use in cost control. Two 1-hour lectures per week.

Messrs. Lynch, Middleton, Shinn

Textile Chemistry

TC 201 Textile Chemistry I

Prerequisites: CH 103, TX 281

2 (2-0) f s

Required of juniors in Textile Technology

A comprehensive course designed to familiarize the student with the chemical properties of all natural and man-made fibers; some emphasis is placed upon the relationship between molecular structure and physical properties; the principles and methods for producing man-made fibers are discussed; a brief survey of organic chemistry is included, particularly those parts that relate to polymer chemistry. Two one-hour lectures per week.

Mr. Rutherford

TC 303, 304 Textile Chemistry III

Prerequisites: CH 221, CH 223

3 (2-3) f s

Required of juniors in Textile Chemistry

A study of the action of chemicals on fibers; methods and chemistry of scouring, bleaching and mercerization; preparation of typical dyestuffs and their application to fibers. Two 1-hour lectures and one 3-hour laboratory period per week.

Mr. Hayes

TC 307 Textile Chemistry II

Prerequisite: TC 201

4 (3-2) f s

Required of seniors in Textile Technology

A comprehensive course covering scouring, bleaching, and dyeing of textile materials. Also fabric finishing, effects of heat and chemicals on fibers, and the economic aspects of different dyes and chemical treatments on fibers and fabrics. Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Hayes

TC 403, 404 Textile Chemical Technology

Prerequisites: TC 304, CH 223

3 (3-0) f s

Required of seniors in Textile Chemistry

Basic principles are applied to the study of three important areas of textile processing: dyeing, printing, and finishing. These areas are concerned with the chemical nature of dyes and other chemical agents applied to fibrous systems; with the chemical and physical properties of the various fibers; and with the mechanical aspects of the application of chemical materials to fibers and fabrics. The course includes an extensive review of the various classes of dyes and their application to all important textile fibers and blends of fibers; a comparative analysis of dyeing machinery and processes involving special machinery and equipment; a survey of modern preparatory and bleaching for all important fibers; a study of the roller printing machine, and the principles involved in print formulations for the major classes of dyes and their application to the various fibers; a study of important mechanical, additive, and chemical modification type finishes for fabric. Three 1-hour lectures per week.

Mr. Campbell

TC 405, 406 Textile Chemical Technology Laboratory

Required of seniors in Textile Chemistry

2 (0-6) f s

To be taken concurrently with TC 403, 404. Two 3-hour laboratories per week.

TC 411 Textile Chemical Analysis I**3 (1-6) f s**

Prerequisite: CH 215

Elective for students in Textile Chemistry

Analysis and evaluation of textile chemicals and related materials such as water, soap, wetting agents, synthetic detergents, bleaching and stripping agents and finishing compounds. Identification and quantitative determination of materials employed in several categories of textile wet processing such as sizes, surface-active agents, dyestuffs and finishes. One 1-hour lecture and two 3-hour laboratory periods per week. Messrs. Campbell, Cates, Rutherford

TC 412 Textile Chemical Analysis II**3 (1-6) f s**

Prerequisites: CH 215, TC 304

Required of students in Textile Chemistry

Analysis of textile materials involving specialized instruments and techniques such as spectrophotometry, pH measurements, electrometric titration, viscometry, etc. One 1-hour lecture and two 3-hour laboratory periods per week. Messrs. Campbell, Cates, Rutherford

TC 421 Fabric Finishing I**2 (2-0) f s**

Prerequisite: TC 201

Elective for students in Textile Technology

Students in Textile Chemistry may not take this course for degree credit

A general course in fabric finishing designed for students not majoring in Textile Chemistry. Emphasis placed on finishes used on garment-type fabrics, including stabilization finishes, water repellency, crease resistance, moth and mildew proofing, fire-proofing, etc. Emphasis on chemistry of finishes varied to fit requirements of students. Two 1-hour lectures per week.

Mr. Hayes

Courses for Advanced Undergraduates and Graduates**Textile Technology****TX 501 Textile Technology Seminar****2 (2-0) s**

Prerequisites: Senior standing and permission of instructor

Elective

Lecture and discussion periods are designed for students who are particularly interested in yarn manufacturing aspects of the textile industry. Subject matter will include such aspects as training methods, safety programs, modern mill design, specialized techniques in setting rates, employee relations and developments that arise from technical meetings. Two 1-hour lectures per week. Messrs. Grover, Hamby

TX 521 Textile Testing II**3 (2-3) f**

Prerequisite: TX 327

Elective

Advanced techniques for measuring properties of natural and man-made fibers, yarns, and fabrics. Interrelations of raw material, quality, processing characteristics, and end product properties. The application of the laws of physical sciences to evaluation of textile materials. Two 1-hour lectures and one 3-hour laboratory per week. Messrs. Hamby, Stuckey

TX 522 Textile Quality Control**3 (2-3) s**

Prerequisite: TX 521

Elective

Quality control systems for textile operations. Defect prevention methods, isolation of processes contributing to substandard quality, relationship between quality control department and operating divisions. Laboratory design, equipment and personnel selection, installation of quality control systems. Two 1-hour lectures and one 3-hour laboratory period per week. Messrs. Hamby, Stuckey

TX 524 Special Projects in Textiles**1 to 3 f s**

Prerequisites: TX 327, senior standing, permission of instructors

Elective

Special studies in either the major or minor field of the advanced undergraduate or graduate student. These special studies will take the form of current problems of the industry, independent investigations in the areas of textile testing and quality control, seminars and technical presentations, both oral and written. Staff

TX 525 Advanced Textile Microscopy

Prerequisite: TX 327

2 (arranged) f s

Elective

Experiments, lectures and demonstrations in more advanced techniques of textile microscopy. Detailed studies of structures of fibers covered in lecture series, supplemented by experiments on lecture topics. Detailed study of all types of microscopes and their uses in textiles. Preparation of slides for photography. Uses of photomicrographic equipment. Lectures and laboratory arranged.

Mr. Stuckey

TX 551 Complex Woven Structures

Prerequisites: TX 303, TX 478

4 (3-2) s

Elective

The development of design specifications for complex fabrics as related to fabric geometry, functional and aesthetic properties and manufacturing limitations. Three 1-hour lectures and one 2-hour laboratory per week.

Mr. Berry

TX 575 Fabric Analytics and Characteristics

Prerequisite: TX 365 or TX 366 or TC 511

3 (3-0) f s

Required of students in Fabric Technology

Elective for others

Correlation of fiber and yarn properties with those of the fabric. Fabric design features related to utilitarian as well as aesthetic values, with case studies of successful fabrics. Inspection and classification of defects with economic aspects. Engineering design of fabrics utilizing blends of fibers and yarns. Three 1-hour lectures per week.

Mr. Porter

General Textile Course**TX 581 Instrumentation and Control**

Prerequisite: PY 212

3 (2-2) f s

Required of all seniors in all Textile curricula

A lecture series with coordinated laboratory exercises designed to familiarize the student with the theory and application of instruments and control apparatus found in the modern textile plant. The studies cover the measurement and control of temperature, humidity, pressure, flow and liquid level, the application of control apparatus to chemical processes and physical finishing of textile products. Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Asbill

Textile Chemistry**TC 501 Seminar in Textile Chemistry**

Prerequisite: TC 403

2 (arranged) s

Required of seniors in Textile Chemistry

The course is designed to familiarize the student with the principal sources of textile chemical literature and to emphasize the importance of keeping abreast of developments in the field of textile chemistry. Particular attention is paid to the fundamentals of technical writing. Reports. Lectures arranged.

Mr. Campbell, Staff

TC 511 Chemistry of Fibers

Prerequisite: CH 223

3 (3-0) f

Required of seniors in Textile Chemistry

A lecture course emphasizing the theory of fiber structure; the relationship between the chemical structure and physical properties of natural and man-made fibers; the nature of the chemical reactions which produce degradation of fibers; the production of man-made fibers. Three 1-hour lectures per week.

Mr. Rutherford

TC 512 (CH 512) Chemistry of High Polymers

Prerequisite: CH 431

3 (3-0) f s

Elective for Textile Chemistry students

Mechanisms and kinetics of polymerization; molecular weight description; theory of polymer solutions. Three 1-hour lectures per week.

Mr. Cates

TC 521 Textile Chemical Analysis III**3 (arranged) f s**

Prerequisite: TC 421 or permission of instructor

Elective for students in Textile Technology.

No credit allowed for students majoring in Textile Chemistry.

The work includes a survey of organic chemistry, with emphasis on organic surfactants, warp sizes, and fabric finishes of all types; the identification of fibers by chemical means; the qualitative and quantitative analysis of fiber blends by chemical means; the identification of finishes; the evaluation techniques for dyed and finished materials. Two one-hour lectures and one three-hour laboratory period per week.

Graduate Staff

Courses for Graduates Only**TX 601, 602 Yarn Technology****3 (arranged) f s**

Prerequisite: Graduate standing

This course provides the student with an opportunity for intensive study of advanced topics in the field of yarn technology.

Messrs. Grover, Hamby

TX 621 Textile Testing III**2 (1-2) f s**

Prerequisite: TX 522 or equivalent

Design of textile laboratories, including conditioning equipment and instruments required for specific needs; performance of tests and analysis of data on industrial problems; specialized physical tests; inter-laboratory tests and analysis; study of A.S.T.M. specifications and work on task groups for the A.S.T.M. Society. One 1-hour lecture and one 2-hour laboratory period per week.

Mr. Hamby

TX 631 Synthetic Fibers**2 (arranged) s**

Prerequisite: TX 430 or TX 436 or equivalent

Lectures and projects on advanced problems relative to the properties and processing of man-made continuous filament and staple fiber yarns.

Messrs. Grover, Hamby

TX 641, 642 Advanced Knitting Systems and Mechanisms**3 (arranged) f s**

Prerequisite: TX 441 or equivalent

A critical study of inventions which have contributed to the development of the modern knitting industry; knitting needles and their adaption for specific uses; means for mounting them for individual and en masse operation; construction and functioning of cooperating elements including sliders, jacks, sinkers, dividers, pressing elements, narrowing and tensioning and draw-off motions, regulating mechanisms, timing and control chains and cams. Use will be made of patent literature which covers important developments in the hosiery industry. Three 1-hour lectures per week.

Mr. Shinn

TX 643, 644 Knitting Technology**3 (2-2) f s**

Prerequisites: Graduate standing and 8 credits in Knitting Technology

Problems of specific interest to the knitting industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication.

Graduate Staff

TX 651, 652 Fabric Development and Construction**3 (arranged) f s**

Prerequisite: Graduate standing

Application of advanced technology to the development and construction of woven fabrics.

Mr. Porter

TX 681 Textile Research**Credits by arrangement**

Problems of specific interest to the textile industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication. The master's thesis may be based upon the data obtained.

Graduate Staff

TX 683 Seminar**1 (1-0) f s**

Discussion of current scientific publications of interest to the textile industry; review and discussion of student papers and research problems.

Graduate Staff

TC 605 Physical Chemistry of Dyeing**3 (arranged) f s**

Prerequisite: CH 433

Development of principles of thermodynamics, emphasizing applications in dye and fiber chemistry. Mr. Cates

TC 606 Chemistry of Fiber-Forming High Polymers**3 (arranged) f s**

Prerequisite: CH 433

Composition and structure of high polymers; properties of linear polymers with particular emphasis on mechanical behavior; chemistry of high polymer degradation. Three 1-hour lectures per week. Mr. Cates

Zoology

Courses for Undergraduates

ZO 103 General Zoology**4 (3-2) f s**

The study of animals with special reference to the morphology, physiology, and ecology of those forms that illustrate zoological principles. Staff

ZO 205 Invertebrate Zoology**4 (3-3) f**

Prerequisite: ZO 103

The biology and classification of the invertebrate animals with special reference to the forms commonly encountered and those which illustrated zoological principles.

Mr. Miller

ZO 206 Vertebrate Zoology**4 (3-3) s**

Prerequisite: ZO 103 or equivalent

The biology, classification, behavior, and natural history of fishes, amphibians, reptiles, birds, and mammals, including laboratory identification of representative forms, local field trips, and student projects and reports. Mr. Quay

ZO 212 Human Anatomy**3 (2-2) f**

Prerequisite: ZO 103

A study of human anatomy with major emphasis on the structure and function of the muscular, skeletal, circulatory and nervous systems. Required of majors in recreation.

Staff

ZO 213 Human Physiology**3 (3-0) s**

Prerequisite: ZO 103

An elementary survey of human physiology. The central theme is the changes in the human body accompanying increased physical activity. The nature and mechanisms of these changes.

Staff

ZO 223 Comparative Anatomy**4 (2-4) f s**

Prerequisite: ZO 103

A comparative morphology of vertebrates demonstrating the interrelationships of the organ systems of the various groups. Mr. Harkema

ZO 301 Animal Physiology**4 (3-3) f s**

Prerequisites: ZO 103, PY 215 and CH 221

Physiology of vertebrates with particular reference to man and the lower animals.

Mr. Santolucito

ZO 312 Principles of Game Management**3 (3-0) s**

Prerequisites: ZO 103, Elective for juniors and seniors not majoring in Wildlife

This course is intended to provide the student with a basic understanding of the major principles of wildlife management. It is designed especially for those individuals who anticipate entering the fields of agriculture, forestry, agricultural extension or rural and industrial recreation. Mr. Barkalow

ZO 315 Animal Parasitology**3 (2-3) s**

Prerequisite: ZO 103

This course is designed to give students a knowledge and appreciation of the parasitic habit. The biology, life history, pathology and control of the common parasites of domestic animals and poultry are covered.

Mr. Harkema

ZO 321 Wildlife and Natural Resources Conservation**3 (3-0) f**

Prerequisite: Sophomore standing in any school

The importance of natural resources to man and the part they play in national and international affairs; the principles which under-ly their conservation and the impact of over-exploitation on primitive and civilized societies. Emphasis is placed on the renewable resources, particularly wildlife.

Mr. Barkalow

Courses for Graduates and Advanced Undergraduates

ZO 501 Ornithology**3 (2-3) s**

Prerequisite: ZO 103

The biology and classification of birds. Field trips for the study and identification of local forms, including trips to Lake Mattamuskeet in February and the coast in May. Individual research projects on nesting populations.

Mr. Quay

ZO 513 Comparative Animal Physiology**3 (3-0) f**

Prerequisite: ZO 301

The comparative physiology of selected systems. Topics will be chosen for detailed consideration in lectures, collateral reading, and class discussion. Each student will, in addition, prepare a term report. A few topics for study may be determined by the interests of the students and by their needs as may be expressed by the supervisor of their major work.

Mr. Santolucito

ZO 520 Fishery Science**3 (1-6) f**

Prerequisites: ZO 103 and approval of the instructor

This course is intended as an introduction to the principles and methods of fishery science. Current theories and practices of fish management will be studied. Life history and biology of important game and commercial species. Survey of fishery resources.

Mr. Hassler

ZO 521 Fishery Science**3 (1-6) s**

Prerequisite: ZO 520

An analysis of fishery research methods and objectives. Detailed studies of the procedures for estimating fish populations, annual reproduction, mortality rates, growth rates, and exploitation rates. The relationship between natural fluctuations in fisheries and environmental factors.

Mr. Hassler

ZO 522 Animal Ecology**3 (2-3) f**

Prerequisites: ZO 103 and BO 103

The general principles of the inter-relations among animals and between animals and their environments—land, freshwater, marine.

Mr. Quay

ZO 541 Cold-blooded Vertebrates (Ichthyology)**3 (1-4) s**

Prerequisite: ZO 103

The classification and ecology of selected groups of fishes. Lectures, laboratories, and field trips dealing with the systematic positions, life histories, interrelationships, and distribution of the particular groups of fishes selected in accordance with the needs and interests of the class.

Mr. Hassler

ZO 542 Cold-blooded Vertebrates (Herpetology)**3 (1-4) f**

Prerequisite: ZO 103

The classification and ecology of selected groups of amphibians and reptiles. Lectures, laboratories, and field trips dealing with the systematic positions, life histories, interrelationships, and distribution of the particular groups of amphibians and reptiles selected in accordance with the needs and interests of the class.

Mr. Hassler

- ZO 544 Mammalogy** 3 (1-4) f
 Prerequisites: ZO 103, ZO 206, and approval of instructor
 The classification, identification, and ecology of the major mammalian groups.
 Mr. Barkalow
- ZO 545 Histology** 4 (2-4) f
 Prerequisite: ZO 103
 The microscopic anatomy of animal tissues.
 Mr. Roberts
- ZO 551, 552 Wildlife Science** 3 (2-3) f s
 Prerequisite: ZO 206
 The principles of wildlife management and their application are studied in the laboratory and in the field.
 Mr. Hester
- ZO 561 Animal Embryology** 4 (2-4) f
 Prerequisite: ZO 103
 The study of fundamental principles which apply in the achievement of complex animal structure, including both invertebrate and vertebrate materials. Correlative laboratory study to provide training in the basic disciplines and techniques. This course is intended for advanced students in entomology, animal science, poultry science, and zoology.
 Mr. Alliston
- ZO 571 Special Studies** Credits by Arrangement
 Prerequisites: ZO 103 and approval of the instructor
 A directed individual investigation of a particular problem in zoology, accompanied by a review of the pertinent literature. A maximum of three credits allowed toward the bachelor's degree, six toward the master's degree and nine toward the doctorate.
 Graduate Staff
- ZO 581 Parasitology I** 4 (2-4) s
 Prerequisites: ZO 103 and 223
 The study of the morphology, biology, and control of the parasitic protozoa and helminths of man, domestic and wild animals.
 (Offered in fall semester 1963)
 Mr. Harkema
- ZO 582 (ENT 582) Medical Entomology** 3 (2-3) s
 Prerequisite: ENT 301 or 312
 A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals.
 (Offered in spring semester 1962)
 Messrs. Harkema and Farrier

Courses for Graduates Only

- ZO 603 Advanced Parasitology** 3 (2-3) s
 Prerequisites: ZO 591 and 592
 The study of the theoretical and practical aspects of parasitism; taxonomy, physiology, and immunology of animal parasites.
 Mr. Harkema
- ZO 614 Cell Physiology** 3 (3-0) s
 Prerequisites: ZO 103, and approval of the instructor
 A study of those fundamental physiological properties at the cellular level which are common to nearly all organisms. Lectures, discussions, and critical reports (oral and written) to promote acquaintance with general literature and recent advances.
 Mr. Santolucito

ZO 622 Seminar

The presentation and defense of current literature papers dealing with the findings of original research or with fundamental biological concepts.

1 (1-0) f s

Graduate Staff

ZO 627 Zoogeography

Prerequisites: ZO 522, and approval of instructor.

The geographic distribution of animals, with primary emphasis on land and freshwater vertebrates.

3 (3-0) f

Mr. Quay

ZO 641 Research in Zoology

Prerequisites: Twelve semester credits in Zoology, and approval of the instructor

Problems in development, life history, morphology, physiology, ecology, game management, taxonomy, or parasitology. A maximum of six credits is allowed toward the master's degree, but any number toward the doctorate.

Credits by arrangement

Graduate Staff

ADMINISTRATION AND FACULTY

The Alumni Association

H. W. TAYLOR, Director of Alumni Affairs

The purposes of the Alumni Association are to promote the growth, progress, and general welfare of State College; to foster among its former students a sentiment of regard for one another and continuing attachment to their Alma Mater; and to interest prospective students in attending State College.

Membership Activities

Active membership is available to all former students, regardless of length of stay at the College; members of the faculty, administrative staff, Agricultural Extension Service, Agricultural Experiment Station, teachers of agriculture in North Carolina high schools; and other persons who have successfully completed a short course at North Carolina State College and received a certificate therefor.

Honorary membership consists of such distinguished persons as are duly elected to honorary membership in the association. The association meets annually during Alumni Week. Class reunions (scheduled in order that each class has a reunion every five years after graduation) are also held each year in connection with Alumni Week. Officers of the association are elected by the active members each year through the medium of a mail ballot. Local State College clubs are organized in most of the counties in North Carolina and in a number of cities in other states.

Alumni Fund

The Alumni Fund was established by the Alumni Association at State College in 1952 to replace the old dues paying program and provide a means through which the alumni may contribute to the advancement of the College. Each alumnus is invited to make an annual contribution.

State College News

State College News is published every month in the year by the Alumni Association and sent to contributors to the Alumni Fund. The purpose of the magazine is to keep association members in touch with the College and with each other. It carries news and pictures of students and former students and of the College.

The Alumni Office

Records of both graduates and nongraduates are kept by the Alumni Office. The master file includes information on all former students; other files are arranged geographically and by classes. Biographical files are also kept.

Serving as a medium of communication between alumni and the College, the Alumni Office, located in the Alumni Memorial Building (formerly the Old Infirmary Building), is official headquarters for alumni when they visit the campus.

College Foundations

L. L. RAY, Director

Nine foundations, organized and incorporated under the laws of North Carolina, promote and support various State College programs.

The foundations include the North Carolina State College Foundation, Inc., the North Carolina Agricultural Foundation, Inc., the North Carolina Dairy Foundation, Inc., the North Carolina Engineering Foundation, Inc., the North Carolina Textile Foundation, Inc., the North Carolina Design Foundation, Inc., the North Carolina Forestry Foundation, the Pulp and Paper Foundation, Inc., and the 4-H Development Fund, Inc.

State College Foundation

The North Carolina State College Foundation, Inc., was organized December 11, 1942, to foster and promote the general welfare of North Carolina State College and to receive and administer gifts and donations for such purposes. The Board of Directors is composed of alumni of State College and members of the Board of Trustees of the University of North Carolina.

Agricultural Foundation

The North Carolina Agricultural Foundation, Inc., renders financial assistance through supplements in the development of strong teaching programs in agriculture and assist the Extension Service and Agricultural Experiment Station of the School of Agriculture at North Carolina State College.

Dairy Foundation

The North Carolina Dairy Foundation, Inc., aims to promote and improve all phases of dairying in North Carolina through education, research, and extension. A Board of Directors of 60 persons handles the affairs of the Foundation; these directors represent distributors, producers, and jobbers.

Engineering Foundation

The North Carolina Engineering Foundation, Inc., gives financial assistance to teaching, research, and extension in and through the School of Engineering.

Textile Foundation

The North Carolina Textile Foundation, Inc., was formed to promote the development of the School of Textiles, and was incorporated December 31, 1942. Funds for this foundation have been raised largely from textile manufacturing plants and other corporations and industries closely allied to textiles.

Design Foundation

The North Carolina Design Foundation, Inc., was organized January, 1949. Foundation funds are used for the promotion and advancement of architectural education at North Carolina State College.

Forestry Foundation

The North Carolina Forestry Foundation was incorporated April 15, 1929. The foundation has acquired a tract of land known as the Hofmann Forest, consisting of about 80,000 acres in Jones and Onslow counties, which is used as a demonstration and research laboratory for forestry students.

Pulp and Paper Foundation

The Pulp and Paper Foundation, Inc., was incorporated December 19, 1954, by the southern pulp and paper mills, for the purpose of supporting the program of pulp and paper technology in the School of Forestry.

4-H Development Fund

The 4-H Development Fund, Inc., was organized in 1959. 4-H Development Fund monies are used to promote and advance all areas of 4-H Club work in North Carolina.

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 The Woman's College at Greensboro

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College Policy

By action of the Trustees, the General Faculty includes all members of the College's teaching force above the rank of Instructor and all general administrative offices of the institution. In the President of the Consolidated University, the Chancellor of the College, and the General Faculty is vested final authority (under the Trustees) over all matters of College policy and activity. Under the General Faculty and Administrative Council, the Schools have separate Faculties and Administrative Boards (composed of all Department Heads) which have final authority over matters pertaining solely to their respective Schools, when not in conflict with Consolidated University and College regulations.

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Coordinator of Student Affairs, School of Engineering, and Associate Professor of Mechanical Engineering, B.S., Ohio University; M.S., North Carolina State College

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Assistant Director of Music Activities, B.S., East Carolina College, M.A., Columbia University

ALEXANDER VASTINE ALLEN

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KEY LEE BARKLEY

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North Carolina State College

Accreditations and Memberships

1962

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INDEX

A

Accreditations and Memberships	419
Activities and Services, Student	27-38
Administration and Faculty	385-420
Administrative Council	390
Admission Requirements	13-17
Aerospace Engineering	160, 162
Agricultural Business Curriculum	54, 55
Agricultural Economics, Course Descriptions	235-238
Agricultural Economics, Department of	63-65
Agricultural Education, Course Descriptions	274-276
Agricultural Education, Department of	112-115
Agricultural Engineering, Course Descriptions	238-241
Agricultural Engineering, Department of	66-69; 133-136
Agricultural Experiment Station	97, 98
Agricultural Extension Work	98, 99
Agricultural Foundation	386
Agricultural Institute, North Carolina	96, 97
Agricultural Science Curriculum	55
Agricultural Technology Curriculum	56
Agriculture, Course Descriptions	241
Agriculture, School of	51-99
Activities, Student	52
Curricula	52-62
Degrees	53
Departments	
Agricultural Economics	63-65
Agricultural Engineering	66-69
Animal Science	69-73
Botany and Bacteriology	73, 74
Crop Science	74-77
Entomology	77, 78
Food Science	79-81
Genetics	81, 82
Horticultural Science	82-85
Plant Pathology	85-87
Poultry Science	87-90
Rural Sociology	90-92
Soil Science	92-94
Zoology	94-96
Facilities	51, 52
Freshman Year	54
Group Electives	57-62
Opportunities	53, 54
Agromech	29
Air Science, Course Descriptions	241, 242
Air Science, Department of	41-45
Alumni Association	385, 386
Animal Husbandry	70, 71
Animal Science, Course Descriptions	243-245
Animal Science, Department of	69-73
Animal Husbandry	70, 71
Dairy Husbandry	71, 72
Anthropology (see Sociology)	
Anthropology, Course Descriptions	245
Architecture, Course Descriptions	245, 246
Architecture, Department of	103-105
Assistantships, Graduate	38
Athletics	
Intercollegiate	30, 31
Intramural	30
Audits	23
Auditors, Admission	16
Average Rule, 1.5 and 2.0	19
Awards, Athletics	38

B

Bachelor's Degrees (see sections on schools)	
Bands	31
Barbershops	34
Biology, Course Descriptions	246
Board	25
Books	25, 35
Botany and Bacteriology, Course Descriptions	246-249
Botany and Bacteriology, Department of	73, 74
Broadcasting System, Student	29

C

Calendar	7, 8
Campus	11, 12
Centers, Student	31, 32
Ceramic Engineering	165, 166; 168, 169
Ceramic Engineering, Course Descriptions	250, 251

Chemical Engineering, Course Descriptions	252-253
Chemical Engineering, Department of	136-139
Chemistry, Course Descriptions	255-260
Chemistry, Department of	202, 203
Civil Engineering, Course Descriptions	260-266
Civil Engineering, Department of	139-145
Construction Option	141, 142
Classification Requirements	19, 20
Clubs	28
Coliseum, William Neal Reynolds	12
Computing Center	210
Conferences	234
Cost, Estimated Annual	25, 26
Counseling	33, 36, 37
Course Descriptions	235-385
Course Repeat Rule	18
Courses, Correspondence	233
Courses, Short	234
Crop Science, Course Descriptions	266, 267
Crop Science, Department of	74-77
Curricula, Changes in	20

D

Dairy Foundation	386
Dairy Husbandry	71, 72
Danforth Chapel	32
Degrees (see sections on schools)	
Deposits	24, 27
Design, Course Descriptions	267, 268
Design, School of	101-109
Curricula	102
Degrees	102
Departments	
Architecture	103-105
Landscape Architecture	106, 107
Product Design	108, 109
Facilities	102
Opportunities	102
Design Foundation	387
Development Fund, 4-H	387
Dining Hall, Leazar	34
Doctor of Philosophy Degree	231
Dry Cleaning	34

E

Economics, Course Descriptions	268-273
Economics, Department of	194, 195
Education (General Courses), Course Descriptions	273, 274
Education, School of	111-125
Degrees	112
Departments	
Agricultural Education	112-115
Industrial Arts	115-117
Industrial Education	117-119
Mathematics and Science Education	119-121
Occupational Information and Guidance	122
Psychology	123
Recreation and Park Administration	123-125
Objectives	111
Opportunities	111
Electrical Engineering, Course Descriptions	291-295
Electrical Engineering, Department of	145-149
Employment, Part-time	38
Engineering, Course Descriptions	296
Engineering, School of	127-174
Curricula	127, 128
Degrees	128, 129
Departments	
Agricultural Engineering	133-136
Chemical Engineering	136-139
Civil Engineering	139-145
Electrical Engineering	145-149
Engineering Mechanics	149-152
Engineering Research	152, 153
Industrial Engineering	154-159
Mechanical Engineering	159-164
Mineral Industries	164-172
Nuclear Engineering	172-174
Furniture Manufacturing and Management	157-159
Graduate Study	128
Humanities	131
Professional Program	132, 133
Research	128
Short Courses and Institutes	130
Engineering Foundation	387

Engineering Honors, Course Descriptions	296, 297
Engineering Mechanics, Course Descriptions	297-300
Engineering Mechanics, Department of	149-152
Engineering Research, Department of	152, 153
English, Course Descriptions	301-303
English, Department of	195
English, Entrance Requirements	13, 14
English, for Foreign Students	348, 349
English, Required Freshman	20
Enrollment, Summary of	12
Entomology, Course Descriptions	303-305
Entomology, Department of	77, 78
Evening College	233
Experimental Statistics, Course Descriptions	306-309
Experimental Statistics, Department of	204-206
Extension Division	233, 234

F	
Faculty	391-418
Fee, Commencement	24
Fees (Tuition)	22-27
Fellowships, Graduate	38
Financial Aid	37, 38; 44
Food Science, Course Descriptions	309, 310
Food Science, Department of	79-81
Food Services	34
Forest Management, Department of	182-185
Forestry, Course Descriptions	311-316
Forestry, School of	177-190
Curricula	177, 178
Degrees	178
Departments	
Forest Management	182-185
Wood Science and Technology	185-190
Extension Programs	180, 181
Facilities and Laboratories	178, 179
Fellowships, Scholarships and Foundations	181
Field Instruction and Experience	179, 180
Honors Program	181
Opportunities	180
Forestry Foundation	387
Former Students, Readmission	16
Foundation, State College	386
Foundations	386, 387
Fraternities	
Honorary	28
Social	28
French, Course Descriptions	349
Freshmen, Admission	13-15
Furniture Manufacturing and Management	157-159

G	
Gaston Technical Institute	130, 234
General Information	11-38
General Studies, School of	193-198
Curriculum	193, 194
Departments	
Economics	194, 195
English	195
History and Political Science	195, 196
Modern Languages	196
Philosophy and Religion	196
Physical Education	197
Social Studies	197
Sociology and Anthropology	198
General Policies	20, 21
Genetics, Course Descriptions	316-318
Genetics, Department of	81, 82
Geological Engineering, Course Descriptions	318-321
Geological Engineering	166, 167; 169, 170
German, Course Descriptions	349, 350
Glee Club	31
Government, Student	27, 28
Grades and Residence at Other Units of UNC	20
Grades and Scholarship	17-20
Grading System	17, 18
Graduate Degrees	231
Graduate School	231
Graduate Students, Admission	17
Graduate Students, Fees	24
Graduation, Requirements for (also see curricula listings and descriptions for various schools)	19
Grants-in-Aid	37

H

Harrelson Hall	12
Health	35, 36
History, Entrance Requirements	14, 15
History, of College	11
History and Political Science, Course Descriptions	321-324
History and Political Science, Department of	195, 196
Holladay Hall	12
Honor System	27, 28
Horticultural Science, Course Descriptions	325, 326
Horticultural Science, Department of	82-85
Housing	25; 33, 34

I

Industrial Arts, Course Descriptions	276-279
Industrial Arts, Department of	115-117
Industrial Arts Education Curriculum	116
Industrial Arts, Technical Option Curriculum	117
Industrial Education, Course Descriptions	279-281
Industrial Education, Department of	117-119
Industrial Engineering, Course Descriptions	327-331
Industrial Engineering, Department of	154-158
Furniture Manufacturing and Management	157-159
Infirmiry	35
Intercollegiate Athletics	30, 31
International Student Orientation	331
Intramural Athletics	30
Italian, Course Descriptions	350

K

Knitting Technology, Department of	216, 217
Knitting Technology, Course Descriptions	376, 377

L

Landscape Architecture, Course Descriptions	331, 332
Landscape Architecture, Department of	106, 107
Laundry	34
Library, D. H. Hill	32, 33
Linen	25, 26; 34
Loans	37

M

Map, Campus	425
Master's Degrees	231
Mathematics, Course Descriptions	332-338
Mathematics, Department of	206-208
Mathematics, Entrance Requirements	14
Mathematics and Science Education, Course Descriptions	282
Mathematics and Science Education, Department of	119-121
Mathematics Education Curriculum	120
Science Education Curriculum	121
McKimmon Village (also see Housing)	12
Mechanical Engineering, Course Descriptions	338-345
Mechanical Engineering, Department of	159-164
Aerospace Engineering Option	160, 162
Metallurgical Engineering	167; 170-172
Metallurgical Engineering, Course Descriptions	345-347
Military Science, Course Descriptions	347, 348
Military Science, Department of	41-45
Military Students, Distinguished	45
Military Training	41-45
Mineral Industries, Department of	164-172
Ceramic	165, 166; 168, 169
Geological	166, 167; 169, 170
Metallurgical	167; 170-172
Modern Languages, Course Descriptions	348-352
Modern Languages, Department of	196
Music	31

N

Nuclear Engineering, Course Descriptions	352, 353
Nuclear Engineering, Department of	172-174

O

Occupational Information and Guidance, Course Descriptions	282-284
Occupational Information and Guidance, Department of	122
Officers	
Administration of, Consolidated University	5
Administration of, North Carolina State College	5, 6
Administrative Council of North Carolina State College	390
Emeriti	416-418
Special	418-420
Teaching and Professional Faculty	391-416
Trustees	388-390
Orientation	36

P

Philosophy and Religion, Course Descriptions	353, 354
Philosophy and Religion, Department of	196
Physical Education, Course Descriptions	354-357
Physical Education, Department of	197
Physical Education, Required	20
Physical Sciences and Applied Mathematics, Course Description	357
Physical Sciences and Applied Mathematics, School of	201-210
Curricula	201, 202
Computing Center	210
Departments	
Chemistry	202, 203
Experimental Statistics	204-206
Mathematics	206-208
Physics	208-210
Facilities	201
Graduate Study	202
Nuclear Science Emphasis	210
Physical Sciences Research	211
Physics, Course Descriptions	357-361
Physics, Department of	208-210
Placement	37
Plant Pathology, Course Descriptions	361-363
Plant Pathology, Department of	85-87
Plant Protection Major	86
Policies, General	20, 21
Political Science (See History and Political Science)	
Poultry Science, Course Descriptions	364, 365
Poultry Science, Department of	87-90
Pre-Veterinary	89
Product Design, Course Descriptions	365, 366
Product Design, Department of	108, 109
Programs of Study	47-211
Psychology, Course Descriptions	284-287
Psychology, Department of	123
Publications, Student	29
Pulp and Paper Foundation	387
Pulp and Paper Technology	188-190

R

Recreation and Park Administration, Course Descriptions	288-290
Recreation and Park Administration, Department of	123-125
Refund Committee	27
Refunds	26, 27
Registration, Late	23
Religion (See Philosophy and Religion)	
Religious Center, E. S. King	31, 32
Research	
Engineering	128
Textiles	228
Residence Requirements	19
Residence Status for Tuition Payment	21, 22
Room Rent	24, 26
ROTC, Army and Air Force	41-45
Rural Sociology, Course Descriptions	366-369
Rural Sociology, Department of	90-92
Russian, Course Descriptions	350, 351

S

Sanitary Engineering, Curriculum	143
Scholarship Standard	18-20
Scholarships	37
Scholastic Aptitude Test	13

Scholastic Loads	21
Schools	
Agriculture	51-99
Design	101-109
Education	111-125
Engineering	127-174
Forestry	177-190
General Studies	193-198
Graduate	231
Physical Sciences and Applied Mathematics	201-211
Textiles	213-229
Science Education, Curriculum	121
Selective Service	45
Semester Rule	18
Services and Activities, Students	27-38
Services, of College	12
Social Studies, Course Descriptions	369-371
Social Studies, Department of	197
Societies	28
Sociology, Course Descriptions	369
Sociology and Anthropology, Department of	198
Soil Mechanics and Foundation Engineering, Curriculum	143
Soil Science, Course Descriptions	371-374
Soil Science, Department of	92
Spanish, Course Descriptions	351
Special Students, Admission	16
Statistics (See Experimental Statistics)	
Structural Engineering, Curriculum	144
Superior Students	21
Supplies	25, 35
Supply Store, Student	12, 35

T

Technician	29
Textile Chemistry, Course Descriptions	377, 378; 379-381
Textile Chemistry, Department of	217-220
Textile Foundation	387
Textile Research	229
Textile Technology, Course Descriptions	374-376; 378-379
Textile Technology, Department of	221-227
Textiles, Course Descriptions	374-381
Textiles, School of	213-229
Curricula	213, 214
Degrees	214
Departments and Divisions	
Knitting Technology	216, 217
Textile Chemistry	217-220
Textile Library	229
Textile Machine Development	229
Textile Placement Bureau	228
Textile Research	228
Textile Technology	221-227
Distinguished Professors	215, 216
Facilities	214
Inspection Trips	215
Opportunities	214, 215
Short Courses	215
Thesis Preparation	24
Tower	29
Tower, Memorial	12
Transfer Students, Admission	15
Transportation Engineering, Curriculum	144
Truck Driver Training	234
Trustees	388-390
Tuition and Fees	22-27

U

Unclassified Students	16, 24
Uniforms and Equipment, Military	43
Union, College	12

W

Withdrawals	20
Wood Science and Technology, Department of	185-190
Pulp and Paper Technology	188-190
Wood Technology	186-188

Z

Zoology, Course Descriptions	381-384
Zoology, Department of	94-96

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**NORTH CAROLINA
STATE COLLEGE**

GENERAL CATALOG

1962-1964



FACULTY, ADMINISTRATIVE AND CLERICAL STAFF



**1962-1963
DIRECTORY**

**NORTH CAROLINA STATE COLLEGE OF
AGRICULTURE AND ENGINEERING OF THE
UNIVERSITY OF NORTH CAROLINA
RALEIGH**

**FACULTY, ADMINISTRATIVE, AND
CLERICAL STAFFS**

College Exchange TE 4-5211

EMERGENCY NUMBERS

- In event of fire, call Raleigh Fire DepartmentTE 2-7733
Then call M. and O.504 or TE 3-8528
In event of emergency at night, Sundays or Holidays
Call M. and O. Security Desk504 or TE 2-2944
In case of accidents, call InfirmaryTE 2-7615
or Rex HospitalVA 8-6211
In event of accident involving radioactive materials, call 575, 553, or 393
or at nightEM 2-5681 or VA 8-2201



OFFICERS OF ADMINISTRATION

For the Academic Year 1962-1963

THE CONSOLIDATED UNIVERSITY OF NORTH CAROLINA

Chapel Hill, North Carolina

President	William C. Friday	Chapel Hill 942-3467
Vice President	Donald B. Anderson	Chapel Hill 942-3195
Business Officer and Treasurer	Alexander H. Shepard, Jr. . .	Chapel Hill 942-4667
Secretary	Frederick H. Weaver	Chapel Hill 967-3981

NORTH CAROLINA STATE COLLEGE

Raleigh, North Carolina

Chancellor	John T. Caldwell	"A" Holladay . . . 210
Dean of the Faculty	Harry C. Kelly	110 Holladay . . . 466
Business Manager	J. Graves Vann	105 Holladay . . . 295
Director of Development	Lex L. Ray	"A" Holladay . . . 322
Dean of Student Affairs	James J. Stewart	101 Holladay . . . 456
Dean of Graduate School	Walter J. Peterson . . . 145	Gardner . . . 429

ADMINISTRATIVE COUNCIL

Chancellor, Chairman	John T. Caldwell
Dean of Student Affairs	James J. Stewart
Business Manager	J. Graves Vann
Director of Development	Lex L. Ray
Dean of the Faculty	Harry C. Kelly
Dean, School of Agriculture	H. Brooks James
Dean, School of Design	Henry L. Kamphoefner
Dean, School of Education	J. Bryant Kirkland
Dean, School of Engineering	Ralph E. Fadum
Dean, School of Forestry	Richard J. Preston
Dean, School of General Studies	Fred V. Cahill
Dean, School of Physical Sciences & Applied Mathematics	Arthur C. Menius
Dean, School of Textiles	Malcolm E. Campbell
Dean, Graduate School	Walter J. Peterson

ACADEMIC SCHOOLS AND DEPARTMENTS

Department	Head	Office	Ext.
AGRICULTURE			
Dean	H. B. James	115 Patterson	211 & 362
Special Asst. to Dean	D. S. Weaver	110 Patterson	480
Director of Instruction	E. W. Glazener	111 Patterson	331
Asst. Director of Instruction	H. C. Folks	109 Patterson	548
Placement Officer	W. H. Tharrington	108 Patterson	480
Director of Extension	R. W. Shoffner	104 Ricks	213
Asso. Dir. of Extension	George Hyatt, Jr.	106 Ricks	213
Asst. Dir. of Extension	George Smith	110 Ricks	527
Asst. Dir. of Extension	J. C. Williamson	112 Ricks	527
Asst. Dir. of Extension	Eloise Cofer	101-A Ricks	244
Adm. Management Asst.	W. M. Garmon	111 Ricks	271
Director of Research	R. L. Lovvorn	107 Patterson	315
Asst. Director in charge of Tobacco Research	K. R. Keller	106 Patterson	444
Asst. Director of Research	H. A. Stewart	102 Patterson	471
Asst. Director of Research	H. F. Robinson	353 Gardner	541
Administrative Officer	C. W. Williams	101-B Patterson	565
Agricultural Economics	C. E. Bishop	216 Patterson	308
Farm Management Ext.	W. L. Turner	220 Patterson	306
Farm Marketing Ext.	George Capel	220 Patterson	291
Agricultural Engineering	F. J. Hassler	102 Ag. Engineering	405
Agricultural Engineering Ext.	H. M. Ellis	200 Ag. Engineering	274
Agricultural Information	W. L. Carpenter	119 Ricks TE 26541	& 472
Animal Science	I. D. Porterfield	117 Polk	320 & 431
Animal Breeding Section	J. E. Legates	106 Polk	305
Animal Husbandry Section	E. R. Barrick	216-A Polk	276 & 326
Animal Husbandry Ext.	Jack Kelley	203 Polk	269 & 498
Animal Nutrition Section	G. H. Wise	304 Polk	241 & 574
Dairy Husbandry Section	W. E. Thomas	115 Polk	268 & 360
Dairy Ext.	J. D. George	102 Polk	321 & 277
Veterinary Section	E. G. Batte	Animal Disease Bldg.	486
Botany and Bacteriology	H. T. Scofield	250 Gardner	267
Crop Science	P. H. Harvey	258 Williams	217
Agronomy Ext.	E. R. Collins	252 Williams	294
Entomology	C. F. Smith	142 Gardner	408
Entomology Ext.	G. D. Jones	140 Gardner	201
Food Science	W. M. Roberts	204 Polk	371
4-H Club (Ext.)	L. R. Harrill	200 Ricks	214
Genetics	H. P. Robinson	353 Gardner	541
Home Demonstration (Ext.)	Nell Kennett	103 Ricks	244
Clothing	Mary Em Lee	300 Ricks	221
Family Relations	Frances Jordan	306 Ricks	221
Food & Nutrition	S. Virginia Wilson	213 Ricks	354
Home Management	Katherine Riggle	305 Ricks	285
Home Marketing	Iola F. Pritchard	214 Ricks	242
Housing & House Furnishings		210 Ricks	462
Horticultural Science	F. D. Cochran	118 Kilgore	275
Horticulture Ext.	John H. Harris	235 Kilgore	296 & 476
Plant Pathology	D. E. Ellis	113 Gardner	373
Plant Pathology Ext.	H. R. Garriss	9 Gardner	336
Poultry Science	H. W. Garren	120 Scott	280
Poultry Ext.	C. F. Parrish	211 Scott	376
Rural Sociology	S. C. Mayo	334 1911 Bldg.	312
Community Develop. Ext.	J. W. Crawford	234 1911 Bldg.	396
Soil Science	J. W. Fitts	219 Williams	470 & 488
Zoology	F. S. Barkalow	155 Gardner	239

ACADEMIC SCHOOLS AND DEPARTMENTS

Department	Head	Office	Ext.
DEAN OF THE FACULTY			
Dean	Harry C. Kelly	110 Holladay	466
Asst. to the Dean	William H. Simpson	110 Holladay	559 & 466
DESIGN			
Dean	Henry L. Kamphoefner	200 Brooks	250
Architecture	Henry L. Kamphoefner	200 Brooks	250
Landscape Architecture	Richard A. Moore	200-C Brooks	343
Product Design	Victor J. Papanek	200-D Brooks	343
EDUCATION			
Dean	J. Bryant Kirkland	119 Tompkins	256 & 311
Agricultural Education	C. C. Scarborough	123 Tompkins	257
Industrial Arts	Ivan Hostetler	106 Tompkins	258
Industrial Education	D. M. Hanson	111-B Tompkins	554
Math. & Science	H. E. Speece	103 Tompkins	349
Occup. Infor. & Guid.	Roy N. Anderson	209 Tompkins	478
Psychology	Howard G. Miller	201 Tompkins	286
Rec. & Park Adm.	Thomas I. Hines	Field House	440
ENGINEERING			
Dean	Ralph E. Fadum	229 Riddick	216
Director of Instruction	R. G. Carson, Jr.	232 Riddick	332
Director of Placement	Raymond E. Tew	239 Riddick	424
Coordinator of Stu. Aff.	W. E. Adams	232 Riddick	404
Chemical Engineering	E. M. Schoenborn	113 Riddick	301
Civil Engineering	*C. R. Bramer	354 Mann	432
Electrical Engineering	George B. Hoadley	320-A Daniels	236
Engineering Mechanics	Patrick H. McDonald	325 Riddick	317
Engineering Research	N. W. Conner	129 Riddick	248 & 423
Industrial Engineering	Clifton A. Anderson	323 Riddick	307
Mechanical Engineering	Robert W. Truitt	211 Broughton	449 & 246
Mineral Industries	W. W. Austin	109 Page	302
Nuclear Engineering	Harold A. Lamonds	224 Riddick	526
Industrial Ext. Service	W. C. Bell	3 IES Bldg.	464
FORESTRY			
Dean	R. J. Preston	160 Kilgore	282 & 270
Forestry (Extension)	John L. Gray	264 Kilgore	407
Forest Management	T. E. Maki	152 Kilgore	406
Wood Science & Technology	Eric L. Elwood	160 Kilgore	282
Pulp & Paper Technology	R. G. Hitchings	106 Robertson Lab.	485
Wood Products Lab.	Robert C. Gilmore	Hodges Laboratory	385
GENERAL STUDIES			
Dean	Fred V. Cahill, Jr.	162 Harrelson	223
Economics	Ernst Swanson	121 Harrelson	515
English	Lodwick Hartley	118 Winston	325
History & Political Science	P. W. Edsall	102 Harrelson	516
Modern Languages	George W. Poland	303 Harrelson	231
Philosophy & Religion	W. N. Hicks	343 Harrelson	374
Physical Education	Paul H. Derr	Carmichael Gymnasium	218
Social Studies	George A. Gullette	144 Harrelson	200
Sociology & Anthropology	Sanford Winston	361 Harrelson	555

* Acting

ACADEMIC SCHOOLS AND DEPARTMENTS

Department	Head	Office	Ext.
PHYSICAL SCIENCES AND APPLIED MATHEMATICS			
Dean	A. C. Menius, Jr.	118 Riddick	500 & 539
Asst. to the Dean	C. G. Mumford	119 Riddick	500 & 539
Chemistry	R. C. Swann	107 Withers	266
Computing Center	D. R. Shreve	4-C Patterson	8332454
Experimental Statistics	J. A. Rigney	114 Patterson	375
Mathematics	John W. Cell	252 Harrelson	227 & 228
Nuclear Reactor	E. Jack Story	31 Nuclear Lab.	393
Physical Sciences Research		119 Riddick	500 & 539
Physics	*Raymond L. Murray	5 Nuclear Reactor	229 & 577
	**J. T. Lynn	5 Nuclear Reactor	229 & 577
TEXTILES			
Dean	Malcolm E. Campbell	101 Nelson Textile	422 & 273
Director of Placement	G. H. Dunlap	111 Nelson Textile	327
Knitting Technology	W. E. Shinn	110 Nelson Textile	562
Machine Design	C. M. Asbill, Jr.	117 Nelson Textile	419
Textile Chemistry	H. A. Rutherford	115 Mangum	341
Textile Technology	Elliot B. Grover	107 Nelson Textile	287 & 289
COLLEGE EXTENSION DIVISION			
Director	Edward W. Ruggles	118 1911 Bldg.	260, 238 834-3333
GRADUATE SCHOOL			
Dean	Walter J. Peterson	145 Gardner	429
Asst. Dean for Research	Frank E. Guthrie	228 Gardner	384
LIBRARY, D. H. HILL			
Director	Harlan C. Brown	132 Library	259
Asst. Director	Isaac T. Littleton	108 Library	344
Catalog	Martha F. Lineberry	109 Library	563
Circulation	Donald S. Keener	106 Library	372
Documents	Mary E. Poole	118 Library	398
Order	Anne L. Turner	113 Library	563
Reference	Emma W. Pohl	122 Library	398
Serials	Gloria W. Houser	12 Library	344
Tobacco Literature Service	Dora L. Zia	233 Library	477
Design Library	Harrye Lyons	201 Brooks	361
Textile Library	Adriana P. Orr	112 Nelson Textile	421
SUMMER SCHOOL			
Director	Jack Suberman	101 Pullen Hall	435
NON-ACADEMIC DEPARTMENTS AND SERVICES			
ALUMNI AFFAIRS			
Director	H. W. Taylor	103 Alumni	TE 3-1010 & 252
Assistant Director	Sherrill K. Brinkley	109 Alumni	TE 3-1010 & 252
ATHLETICS			
Director	Roy B. Clogston	105 Coliseum	TE 2-2407 & 411
Baseball Coach	Victor G. Sorrell	122 Coliseum	TE 2-2407 & 340
Baseball Coach (Freshman)	Jennings B. Edwards	Carmichael Gymnasium	496
Basketball Coach	Everett N. Case	104 Coliseum	TE 4-1881
Football Coach	Earle L. Edwards	130 Coliseum	TE 2-6934

* On leave

** Acting Head

NON-ACADEMIC DEPARTMENTS AND SERVICES

Department	Head	Office	Ext.
Golf Coach	Albert P. Michaels	130 Coliseum	TE 2-6934
Rifle Coach	George H. Oakley, Jr.	154 Coliseum	233
Soccer Coach	Nelvin Cooper	Carmichael Gymnasium	496
Swimming Coach	Willis R. Casey	122 Coliseum	TE 2-2407 & 340
Tennis Coach	John F. Kenfield, Jr.	Carmichael Gymnasium	496
Track Coach	Paul Derr	Carmichael Gymnasium	218 & 496
Sports Information Director	J. Frank Weedon	124 Coliseum	TE 3-5620
Wolfpack Club Director	Warren Carroll	108 Coliseum	TE 4-2241
BUSINESS OFFICE			
Business Manager	J. G. Vann	105 Holladay	295
Asst. Business Manager	W. L. Turner	"B" Holladay	298 & 544
Asst. Budget Officer	John D. Wright	"B" Holladay	538
Cashier	Shirley G. Hamilton	"B" Holladay	278
Personnel Officer	James R. Swiger	Primrose Hall	481
CAFETERIA			
Slater Food Services	Fred R. Coleman	Leazar	TE 3-4825 & TE 3-4826
COLISEUM, WILLIAM NEAL REYNOLDS			
Director	Roy B. Clogston	105 Coliseum	TE 2-2407 & 411
COMMITTEE ON SAFETY AND HEALTH			
Chairman	E. G. Manning	425 Daniels	395
Vice Chairman	Frances M. Richardson	206 Riddick	357
Radiation Safety			
Radiological Safety Officer	L. T. Caruthers	214 Mangum	575 & 553
Director of Nuclear Reactor Project	E. J. Story	32 Reactor Bldg.	393
FOUNDATIONS AND DEVELOPMENT, OFFICE OF			
Director	L. L. Ray	"A" Holladay	322
Asst. Director	C. W. Hart	"A" Holladay	322
Asst. in Development	R. N. Wood	"A" Holladay	322
INFORMATION SERVICES, OFFICE OF			
Director	Hardy D. Berry	Watauga Hall	VA 8-9707 & 253
Asso. Director	Joseph S. Hancock	Watauga Hall	VA 8-9707 & 253
Asst. Director	Nancy D. Williford	Watauga Hall	VA 8-9707 & 253
MAINTENANCE AND OPERATIONS			
Director	J. McCree Smith	101 Morris	504
Asst. Director	Macon R. Rowland	102 Morris	504
Physical Plant:			
Administrative Asst.	John E. Higgins	111 Morris	504
Asst. College Engineer	Robert E. Fite	115 Morris	504
Buildings Supt.	Charles C. Braswell	2 Park	504
Shop Superintendent	Leon I. Parrish	1 Park	504
Power Plant Supt.	Frank R. Kennedy	Power Plant	504
Grounds Superintendent	Harold C. Bolick	1 Morris	504
Chief Clerk	Page Billingsley	100 Morris	504
Services:			
Central Stores	A. H. Adams	108 Morris	463
Laundry	Joseph R. Gower	Laundry	283

NON-ACADEMIC DEPARTMENTS AND SERVICES

Department	Head	Office	Ext.
NATIONAL REGISTER RECORDS CENTER			
		Rm. 101, 400 Oberlin Rd.	265
N. C. CROP IMPROVEMENT ASSOCIATION			
Director	*John C. Rice	193 Williams	207
	**Foil W. McLaughlin	193 Williams	207
N. C. FOUNDATION SEED PRODUCERS, INC.			
Manager	R. W. McMillen	124 Williams	TE 2-1573
PRINT SHOP			
Manager	L. B. Phillips	Print Shop Bldg.	TE 3-4151 & 281
PURCHASING			
Purchasing Agent	John C. Williams	107 1911 Bldg.	501
Asst. Purchasing Agent	Felton D. Tilley	106 1911 Bldg.	501
STUDENT AFFAIRS			
Dean	James J. Stewart, Jr.	101 Holladay	456
Student Activities			
Director	Banks C. Talley, Jr.	206 Holladay	370
Asst. Director	Thomas L. Covington, Jr.	206 Holladay	215
College Union			
Director	Henry Bowers	216 College Union	621
Asso. Director	Richard S. Heaton	214 College Union	622
Social Director	David W. Phillips	College Union	378
Craft Shop Director	Carol H. Johnson	College Union	378
Food Service Director	Bernard Kerrick	College Union	TE 4-7310
Directory Service	Corrine S. Philbrick	College Union	TE 4-7318
Reservations and Information			
	Neill S. Briggs	216 College Union	TE 4-7310
Music Activities			
Director	J. Perry Watson	104 Pullen	251
Asst. Director	Donald B. Adcock	104 Pullen	251
Student Publications	Carol H. Kenfield	King Building	TE 3-4810
Foreign Student Adviser	Roy N. Anderson	209 Tompkins	478
International Student Center			
	Margaret C. Woodhouse	King Building	202
Religious Activities			
Coordinator	Oscar B. Wooldridge, Jr.	King Building	TE 2-7184
Asst. Coordinator	Robert W. Hare	King Building	TE 2-7184
Chaplains to Students			
Baptist	LeRoy P. Richardson	2702 Hillsboro St.	TE 2-1835
Catholic	Father John Breunig	King Building and 218 Pittsboro St., Chapel Hill	942-2090
Congregational Friends			
	S. Collins Kilburn	286 Hillsboro St.	TE 2-1119
Disciples of Christ	R. Fred West	33 Bagwell Ave.	VA 8-5662
Eastern Orthodox			
	E. K. Stephanopoulos	221 Person St.	TE 3-1755
Episcopal	Roderick Reinecke	King Building	TE 2-7184

* On leave

** Acting Director

NON-ACADEMIC DEPARTMENTS AND SERVICES

Department	Head	Office	Ext.
Evangelical & Reformed	Frank K. Bostian	814 Dixie Trail	TE 3-8407
Jewish	Rabbi Joseph H. Levine	King Building and 210 W. Cameron St., Chapel Hill	942-4057
Lutheran	John Cobb	2723 Clark Ave.	TE 2-9687
Methodist	Neal McGlamery	2501 Clark Ave.	TE 3-1861
Moravian	Alan H. Barnes	3225 Darien Dr.	TE 3-3840
Presbyterian	Donald W. Shriver, Jr.	27 Horne St.	VA 8-5468
Admissions and Registration			
Director	Kenneth D. Raab	13 Holladay	205 & 551
Asst. Dir. for Admissions	Hugh R. Fordyce	13 Holladay	205
Asst. Dir. for Registration	E. Glenn Overton	12 Holladay	219 & 351
Asst. Dir. for Registration	Charles P. Greyer	9 Holladay	552
Academic Records & Permanent Files		10 Holladay	489
Admission Records		14 Holladay	219
Counseling			
Director	Lyle B. Rogers	201 Holladay	224
Asst. Dir.—Financial Aid	Kingston Johns, Jr.	207 Holladay	460
Asst. Dir.—Counseling Center	George F. Needham	203 Holladay	397
Student Housing			
Director	N. B. Watts	207 Holladay	434
Asst. Director	Wilton L. Fleming	Leazar Hall	349
Housing Rental Officer	James S. Fulghum	Leazar Hall	349
Student Health Service			
Director	Dr. J. J. Combs	Clark Infirmary	TE 2-7615
Air Force ROTC	Col. James D. Howder	145 Coliseum	314
Army ROTC	Col. L. W. Merriam	154 Coliseum	233
Military Supply	H. C. Thomas	Gymnasium (old)	232

STUDENTS SUPPLY STORES

General Manager	L. L. Ivey	SSS Bldg.	
Asst. General Manager	Mark H. Wheless	SSS Bldg.	
Manager SSS Bldg.	G. G. Glass	SSS Bldg.	511 & 833-1936
Dir. of Purchasing	William E. Tant	SSS Bldg.	
Manager Book Dept.	C. L. Chambers	SSS Bldg.	
Manager Fountain Operations	Monty Carde	SSS Bldg.	
Manager Coliseum Concessions	W. L. Gouge, Jr.	119 Coliseum	452 & 834-9197

TELEPHONE SERVICES AND ACCOUNTS

Director	Baye Sumner	Leazar Hall	400
Supervisor	Bessie B. Turner	116 Winston	0
Operator	Annie P. Cooke	116 Winston	0
Operator	Rosa G. Thompson	116 Winston	0

TELEVISION

Director	George L. Hall	WUNC-TV	TE 4-6262
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VISUAL AIDS

Head	Landis S. Bennett	5 Ricks	458
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COLLEGE COMMITTEES FOR 1962-1963

ADMISSIONS

W. D. Toussaint, Chairman
H. G. Eldridge (Senate)
H. R. Fordyce
E. G. Manning
R. S. Metzger
R. G. D. Steel

ATHLETICS COUNCIL

R. E. Fadum, Chairman
W. W. Austin
P. H. Derr
J. B. Kirkland
R. J. Monroe
Alumni Members:
C. A. Dillon, Jr.
G. E. Jackson
H. C. Kennett
E. F. Lewis
C. A. Phillips
Student Members:
Floyd E. McCall
H. B. Matthews, Jr.
Robert E. Long
G. Smedes York
Peter Fogarasy

BUILDINGS & GROUNDS

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P. D. Cribbins (Senate)
F. L. Haynes, Jr.
J. W. Horn (Traffic)
R. A. Moore
L. A. Whitford
W. W. Woodhouse
J. M. Smith, Advisory
E. W. Waugh, Ex-Officio

CAFETERIA ADVISORY

F. B. Thomas, Chairman
J. F. Barrett
Rachel H. Ferguson
L. S. Winton
Student Members:
Edward B. Lurey
John C. Roy
Gregory D. Roberts

CAMPUS STORES ADVISORY

L. W. Merriam, Chairman
J. N. Boaz

C. C. Stott
C. I. Foster

Student Members:

Jack P. Jordan
Joe E. Eagles
Richard M. Smith

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J. Clyde Johnson, Chairman
W. C. Bell
H. C. Cooke (Senate)
E. A. Fails
J. O. Lammi
S. C. Mayo
H. A. Shannon

COMMENCEMENT ADVISORY

J. S. Doolittle, Chairman
J. R. Lambert, Jr.
T. J. Mann (Senate)
J. A. Porter
F. G. Warren

COMPUTING LABORATORY

ADVISORY

D. D. Mason, Chairman
A. C. Barefoot
J. F. Bogden
D. W. Drewes
J. K. Ferrell
C. H. Kahn
R. A. King
R. W. Llewellyn
L. B. Martin
B. M. Olsen
H. F. Robinson
D. R. Shreve
W. L. Turner

COURSES & CURRICULA

C. R. McCullough, Chairman
W. J. Block (Senate)
J. H. Cox
E. L. Ellwood
D. S. Hamby
F. J. Hassler
R. H. Loeppert
C. C. Scarborough
Jack Suberman

COLLEGE COMMITTEES FOR 1962-1963

FACULTY HEARING

Term expires Sept.

J. S. Doolittle, Chairman 1968
K. L. Barkley 1968
C. H. Bostian 1968
Arthur Kelman 1968
R. J. Monroe 1968

Alternates:

W. W. Austin
J. E. Legates
H. M. Nahikian

FACULTY HOSPITALITY & ORIENTATION

Roy N. Anderson, Chairman
W. A. Reid, Secretary
M. E. Senger
E. W. Winkler

O. MAX GARDNER AWARD

C. J. Nusbaum, Chairman
R. G. Carson, Jr.
R. M. Carter
R. A. King
E. W. Swanson

GOVERNMENT

Term expires Sept.

W. W. Austin, Chairman 1963
B. F. Beers 1965
R. C. Bullock 1964
D. D. Mason 1965
H. G. Miller 1963
J. N. Young 1964

GRADUATE SCHOOL ADMINISTRATIVE BOARD

W. J. Peterson, Chairman
R. L. Anderson
R. N. Anderson
F. V. Cahill
D. M. Cates
J. L. Etchells
R. L. Lovvorn
J. T. Lynn
P. H. McDonald
T. E. Maki
W. D. Stevenson

GROUP INSURANCE & FACULTY WELFARE

R. L. Rabb, Chairman
K. S. Campbell, Vice Chairman
M. H. Clayton
H. M. Corter

J. S. Doolittle
C. H. Hamilton
W. R. Henry
D. F. Matzinger
L. L. Miller (Senate)
D. M. Peterson
J. G. Vann
F. J. Verlinden

HARRELSON FUND

Fred V. Cahill, Chairman
Roy N. Anderson
B. F. Beers
C. H. Bostian
H. L. Kamphoefner

HISTORY OF THE COLLEGE

P. W. Edsall, Chairman
L. S. Bennett
R. N. Elliott
M. E. Gardner
D. J. Rulfs
H. W. Taylor

LIBRARY

L. C. Hartley, Chairman
J. F. Bogdan
P. M. Buisson
J. O. Cook
M. S. Downs
J. T. Lynn
R. J. McCracken
T. O. Perry (Senate)
Charles Smallwood, Jr.
H. C. Brown, Ex-Officio
I. T. Littleton, Ex-Officio

PATENTS

J. G. Vann, Chairman
C. M. Asbill
W. H. Bennett
N. W. Conner
R. L. Lovvorn

REACTOR SAFEGUARDS ADVISORY

Term expires Sept.

H. A. Lamonds, Chairman 1964
A. F. Coots 1965
Newton Underwood 1963

REFUND OF FEES

A. C. Barefoot, Chairman
A. M. Hoch
W. E. Shinn

COLLEGE COMMITTEES FOR 1962-1963

RESEARCH

W. J. Peterson, Chairman
 F. E. Guthrie, Secretary
 W. J. Block
 D. M. Cates
 A. F. Coots
 R. W. Truitt
 C. H. Kahn
 S. E. Newman
 R. J. Preston
 H. A. Stewart
 H. C. Kelly, Ex-Officio

SAFETY & HEALTH FOR REACTORS & RADIOISOTOPES

Term expires Sept.

E. G. Manning, Chairman	1963
H. A. Rutherford	1963
Frances M. Richardson,	
Vice Chairman	1964
A. F. Coots	1964
D. S. Grosch	1965
H. A. Lamonds	1965
W. A. Jackson	1966
W. O. Doggett	1966
E. J. Story, Ex-Officio	
L. T. Caruthers, Ex-Officio	

SCHOLARSHIPS & STUDENT AID

N. R. Bell, Chairman
 K. Johns, Jr., Secretary
 R. B. Clogston
 G. H. Dunlap
 T. I. Hines
 R. G. Hitchings
 J. N. Young

SOCIAL FUNCTIONS

J. B. Edwards, Chairman
 R. C. Bryant
 M. S. Downs
 J. M. Fore
 R. W. Hare
 Charles Smallwood, Jr.
 Student Members:
 Edward D. Aycoth
 Richard L. Barefoot
 Eugene O. Eagle
 John W. Earnhardt, Jr.
 Peter A. Lesslie
 Herbert R. Sanborn
 Jon Garwood Speaks
 Woodrow M. Taylor
 Omar R. Wiseman

STUDENT ORIENTATION

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N. R. Bell	1963	Engineering	331 Daniels	459
G. L. Bireline	1963	Design	203 Brooks	547
W. J. Block	1964	General Studies	111 Harrelson	356
J. N. Boaz	1964	Design	200E Brooks	438
C. H. Bostian	1963	Agriculture	348 Gardner	542
P. A. Bredenberg	1964	General Studies	347 Harrelson	374
H. C. Cooke	1964	Phy. Sci. & App. Math.	206 Harrelson	226
P. D. Cribbins	1964	Engineering	442 Mann	303
H. G. Eldridge	1963	General Studies	11 Winston	325
H. W. Garren	1964	Agriculture	120 Scott	280
W. C. Hackler	1963	Engineering	110 Page	249
K. P. Hanson	1964	Engineering	319 Broughton	450
A. Holtzman	1963	General Studies	115 Harrelson	356
W. M. Keller	1963	Forestry	260 Kilgore	407
W. W. Kriegel	1963	Engineering	109 Page	249
J. F. Lutz	1964	Agriculture	224 Williams	345
J. T. Lynn	1963	Phy. Sci. & App. Math.	400D Daniels	353
T. J. Mann	1964	Agriculture	430 Williams	334
L. L. Miller	1964	Education	Field House	440
T. O. Perry	1964	Forestry	70 Kilgore	282
H. D. Rawls	1964	General Studies	354 Harrelson	555
Frances Richardson	1963	Engineering	206 Riddick	357
J. F. Seely	1964	Engineering	216 Riddick	357
M. L. Speck	1963	Agriculture	211 Polk	319
R. F. Stoops	1964	Engineering	1 Riddick	347
W. C. Stuckey	1963	Textiles	B-51 Nelson Textile	414
R. C. Swann	1963	Phy. Sci. & App. Math.	108 Withers	266
W. D. Toussaint	1963	Agriculture	215 Patterson	469
R. E. Wiggins	1964	Textiles	107-B Nelson Textile	287
G. H. Wise	1963	Agriculture	304 Polk	241

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†Adams, Virginia K., Ag. Res. Tech., Food Sci. 3 Kilgore; 1405 Mordecai Dr.	455	TE37950
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*Adcock, Donald B., Asst. Dir. of Music Pullen; 4318 Lambeth Dr.	251	TE34438
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*Allen, Doris W., Steno., Ag. Ext. 207 Ricks; Box 436, Rt. 1, Cary	212	8338786
Allen, Duncan P., Instructor, English 215 Winston; 1816 Park Dr.	392	VA88165
*Allen, Joyce W., Admin. Sec., Engr. Research 127 Riddick; Rt. 1, Knightdale	248	CO62742
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*Allgood, James G., Farm Mgmt. Spec., Ext. 220 Patterson; 405 Union St., Cary	528	HO79547
*Alliston, Charles W., Asst. Prof., Zoology 343 Gardner; 1507 Powell Dr.	225	TE23972
*Alliston, Katie B., Steno., Crop Science 256 Williams; 1507 Powell Dr.	262	TE23972
*Allred, Fred J., Asso. Prof., Modern Languages 308 Harrelson; 3016 Mayview Rd.	231	TE23588
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*Ammerman, Talitha C., Acct. Clerk, Hort. Sci. 118 Kilgore; Rt. 1, Cary	275	TE39267
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*Anderson, Roy N., Prof. & Head, Occup. Inf. & Guidance 209 Tompkins; 117 Forest Rd.	478	TE34090
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Atkins, Diane, Sec., Math. Research 324 Harrelson; 12 Dixie Tr.	509	TE37723
*Aull, Helen L., Res. Analyst, Poultry Sci. 202 Scott; 2722 Vanderbilt Ave.	352	TE30184
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B

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Barrow, Patricia A., Steno., Entomology 232 Gardner; 715 N. Blount St.	384	TE44805
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* Bartley, Andrew J., Asso. Prof., Economics 125 Harrelson; Rt. 4, Raleigh	333	TE33365
* Bassett, Donald G., Instructor, Mechanical Engr. 273 Broughton; 2613 Broadwell Dr.	247	8287841
* Bassett, Sue L., Steno, Engr. Research 124 Riddick; 2613 Broadwell Dr.	423	8287841
* Batchelor, R. E., Lithograph Suprv., Ag. Inf. 23 Ricks; Box 212, Wendell	254	FO59291
* Bates, Marilyn L., Key Punch Oper., Nat. Sc. Register 101, 400 Oberlin Rd.; 1223 Brookside Dr.	265	TE37569
* Batte, Edward G., Prof., An. Sci. 127 Animal Disease Lab.; 715 Beaver Dam Rd.	486	TE39766
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* Beam, H. Edwin, Asst. Prof., Ag. Education 121 Tompkins; 4516 Laurel Hills	346	VA89860
* Beaman, Hope S., Library Asst. 211 Library; F-26 McKimmon Village	372	8285048
* Beasley, E. O., Res. Inst., Engineering 124 Ag. Engineering Bldg.; 3606 Woodside Rd.	484	TE40979
* Beasley, Mary C., Sec., Foundations and Development A Holladay; 714 Kimbrough St.	322	TE39066
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* Beatty, Neill M., Instructor, Mechanical Engineering 271 Broughton; 2413 Greenway Ave.	247	TE40176
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* Bell, Jon Elizabeth, Steno., Crop Sci. 480 Williams; 204 Faircloth St.	522	8341025
* Bell, N. R., Asso. Prof., Electrical Engineering 331 Daniels; 2312 Woodrow Dr.	236, 459	8343825
* Bell, Oliver A., Maint. Man, Civil Engr. 145-A Mann; 2604 Garner Rd.	303	TE33774
* Bell, Rebekah S., Typist Clerk, Entomology 329 Gardner; 2816 O'Berry St.	409	TE32672
* Bell, Thomas A., Asso. Prof., Food Sci. 312 Polk; 117 Montgomery St.	206	TE36154
* Bell, William C., Res. Prof. & Head, Ind. Ext. Service 3 IES Building; 3044 Lewis Farm Rd.	464	TE38242
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* Bennett, Landis S., Head, Visual Aids, Ag. Info. 5 Ricks; 2638 Kilgore Ave.	458	TE36283

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*Bennett, Virgil L., Military Science 154 Coliseum; 5730 Woodcrest Dr.	233	
*Bennett, Willard H., Prof., Physics 310 Daniels; 5032 Kaplan Dr.	521	8282135
*Bentley, Elizabeth T., Steno., Plant Path. 113 Gardner; 5304 E. Lakeside Dr.	373	TE45821
*Bentley, J. W., Ag. Res. Asst., Crop Sci. 186 Williams; Rt. 1, Box 71, Cary	324	TE26247
*Bernard, Eugene E., Asst. Prof., Poultry Sci. 224 Scott; 707 West Morgan St.	234	8346201
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*Blow, William L., Asso. Prof., Poultry 205 Scott; 304 Furches St.	352	TE36806
*Blue, Henry D., Maintenance Superv., College Union College Union	621, 622	
*Blum, G. B., Jr., Asst. Prof., Ag. Engineering 150 Ag. Engineering; 1408 Walnut Tr.	479	TE41578
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*Brantley, Vester R., Asst. Prof., Mathematics 336 Harrelson; 152 Jones Franklin Rd.	509	TE30022
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*Doggett, J. Frank, Ext. Soil Conservationist, Soil Sci. 387 Williams; 6303 Hilltop Dr.	579	TE38023
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Allen, Tommy Hugh	FR	A	167 Owen Bx 4457	TE2-9437	Rt. 1, Stem, NC
Allen, William Alexander III	SR	AJI	1710 Hillsboro St.	TE4-2001	400 Church St., Farmville, NC
Allen, William Joseph	SO	ATE	Box 4797	TE2-9237	Rt. 1, Asheville, NC
Allison, Allison Douglass II	SO	EE	5312 E. Lakeside Dr.	VA8-3478	5312 E. Lakeside Dr., Raleigh, NC
Allison, John Walter	FR	MA	513 Fagwell	834-9151	520 Tate St., Greensboro, NC
Allman, Robert Randolph	JR	AM	243 Owen Box 4496	TE2-9410	709 E. 1st St., Cherryville, NC
Allred, Fred Mark, Jr.	JR	TC	423C Bragaw Box 15200	TE3-6293	Box 563, Burlington, NC
Allred, John Herbert	SR	LE	11 Maiden Lane	TE6-4643	Rt. 1, Box 188-A, Ashboro, NC
Allred, Julian Carl III	FR	ME	Owen Box 4540	TE4-9300	116 W. Maryland Ave., Draper, NC
Allsbrook, Ernest R., Jr.	FR	OS	Rt. 1 Box 144, Cary	VA8-6763	Rt. 1 Box 144, Cary NC
Allsbrook, Robert Whitehead, Jr.	SO	AG	Alexander 115		114 Overstreet Dr., Enfield, NC
Almond, Charles Barrette, Jr.	SO	ME	112 Syme	832-9288	Rt. 4, Box 213, Albemarle, NC
Almond, Charles James	SO	EE	106 Beeton Bx 3706		301 Peach St., Shelby, NC
Almond, Larry Joe	JR	AS	302C Bragaw Box 15312	TE4-4545	Rt. 1, Troy Rd., Albemarle, NC
Alphin, John Gilbert	GR	AGE	3114 Douglas St.	828-6059	Rt. 2, Mt. Olive, NC
Altemus, Robert Wayne	FR	EE	Tucker Box 4743	TE2-9739	6600 SW 128th St., Miami 56, FLA
Altman, Laurice Gaillard, Jr.	SO	FOR	108 Watauga Bx 3008	TE2-9447	20 Palmetto St., Georgetown, SC
Aman, David Manley	FR	ASE	Owen Box 4453	TE2-9437	Rt. 2, Box 55, Jacksonville, NC
Amato, Rosario Sal			222 Tucker		2730 Stephen St., Easton, PA
Ambrose, William Leonard	GR	SO	1254 Woodburn Rd.		543 Arrowhead Tr., Knoxville, TENN
Amick, William Michael	SR	PPT	4-311 McKimmon Vill.	832-3380	2303 W. 36 Ave., Pine Bluff, ARK
Ammon, Robert Vance	SO	AMA	Beeton 116 Bx 3716	TE2-9256	627 Oakdale St., Statesville, NC
Amos, Joseph Thurman, Jr.	FR	ME	8 Beeton Bx 3810	832-9216	Rt. 3, Box 333, Morganton, NC
Anastes, Gus Robert	SO	ARC	63 Owen Bx 4597	TE2-9142	143 Altondale Ave., Charlotte, NC
Anderson, Alan Robert	SO	UN	311 Welch	TE2-9119	1366 Sherman St., Watertown, NY
Anderson, Bruce Anala	JR	LE	119 Alexander	TE2-9157	Rt. 1, Box 306, Salisbury, NC
Anderson, Clifford John	GR	NE	312 Gold Bx 3236	TE2-9263	46 Silver St., Patchogue, NY
Anderson, David Nels	GR	TY	117 Forest Rd.	TE3-4090	117 Forest Rd., Raleigh, NC
Anderson, Edward James	FR	NE	506 Harvey St.	TE3-7938	506 Harvey St., Raleigh, NC
Anderson, Harry Edward	FR	FOR	Box 3015		Rt. 4, Louisa, VA
Anderson, James Franklin	GR	ABH			Rt. 3, Goldsboro, NC
Anderson, James Henry	JR	ME	502 Tilden St.		Rt. 1, Box 310, Arden, NC
Anderson, John Kennedy	SO	ARC	320 Yarkin St.	TE4-4914	320 Yarkin St., Raleigh, NC
Anderson, Larry D.	FR	EE	259 Owen		709 Baker Rd., High Point, NC
Anderson, Olin Speigner, Jr.	SO	EE			Blawett Falls, Lilesville, NC
Anderson, Paul Alderman, Jr.	SR	ME	2612 Clark Ave.	TE2-9484	2138 Princeton Ave., Charlotte, NC
Anderson, Ralph Franklin	SR	EE	P-302 Md Stu Hs		Mars Hill, NC
Anderson, Robert Bruce	GR	CE	2822 Van Dyke Ave.	828-4354	2822 Van Dyke Ave., Raleigh, NC
Anderson, Robert Chapman	JR	MEA	2717 Kittrell Dr.	TE2-6890	2717 Kittrell Dr., Raleigh, NC
Anderson, Robert Lawson	SO	CE	301B Bragaw Bx 15101	TE4-9179	1222 Hinshaw St., N. Wilkesboro, NC
Anderson, Robert Thomas	JR	NE	312 Gold Bx 3236	TE2-9263	46 Silver St., Patchogue, NY
Anderson, William H. Wilder, Jr.	SO	ME	129 Forest Rd.	TE2-6108	792 Stratford Rd., Winston-Salem, NC
Anderson, Woodrow Antonia	JR	ABH	309B Bragaw, Bx 15117		Rt. 3, Box 90, Goldsboro, NC
Andres, Robert Raymond, Jr.	SO	EE	416 Dixie Tr.	TE2-1308	803 Miller St., Winston-Salem, NC
Andreve, George Jan	SO	ARC	126 Syme		201 N. Elm Ave., Greensboro, NC
Andrew, John Rodman	JR	CEC	811C Daniels St.	TE3-9044	216 College Ave., Washington, NC
Andrews, Gus Leno	FR	RFA	Box 4786		2416 N. Main St., Tarboro, NC
Andrews, Norman John	SO	NE	1912 Craig St.	833-9345	1912 Craig St., Raleigh, NC
Andrews, Robert Franklin III	FR	EE	117 Tucker Bx 4628		215 Grove Cr., Brevard, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Andrews, Robert Louis	SR	EE	Rt. 1, bx 144, Gary	833-5912	N. Main St., Sparta, NC
Andrews, Roy Wayne	FR	NE	223 Tucker		301 Lowe St., Mt. Holly, NC
Andrews, Sidney Bonitz, Jr.	SR	FY	301 watauga Ex 3037	TE2-9132	503 Northern Blvd., Wilmington, NC
Angell, David Edward	UN	GS	108 watauga Bx 3008	TE2-9447	2501 Biting Rd., Winston-Salem, NC
Angle, William Maynard, Jr.	SO	ME	3010 Bragaw Ex 15192		523 Kentwood St., Lenoir, NC
Anglin, Richard Edward, Jr.	JR	TXT	4425 Bragaw		225 Stone St., Hope Mills, NC
Ankure, Anaris	JR	GS	30194 Hillsboro St.	828-8990	614 E 16th St., Charlotte 5, NC
Al-And Tariq Ali			2702 Hillsboro St.	TE2-1835	Marthayh 38/6, Baghdad, Iraq
Antel, Rosemary Dana	SR	CH	Rt. 7, Raleigh	TE4-8749	Rt. 7, Raleigh, NC
Anthony, Robert James	SR	REC	Tucker		413 Wells St., Steubenville, OHIO
Apple, Howard Douglas	GR	CE	Box 3776		Rt. 6, Burlington, NC
Apple, Warren Douglas	FR	EE	348 Owen Ex 4559	834-9836	Rt. 1, Gibsonville, NC
Appleyard, John James	FR	EE	Wens Ex 4550	834-9836	813 Magnolia St., Winston-Salem, NC
Aranda, Armando	GR	CS	480 Williams Hall		Calte 12 #1,-79, Socorro-Santander Colombia S.A.
Archer, Benjamin David	SO	ME	314 Turlington	TE2-9192	2517 Commonwealth Ave., Charlotte
Archer, David McCall	SR	FOR	1620 Hillsboro St.		1320 Palm Ave., Jacksonville, FLA
Ardey, William M.	SO	FOR	227 Owen	TE2-9252	Rt. 1, Matthews, NC
El Aref, Magdi Mourad	JR	TAT	Box 5702 Coll. Sta.	VAR-7560	Box 5702 Coll. Sta., Raleigh, NC
Arey, Jeffrey Marvin	JR	JE	120 Becton Ex 3720	TE2-9256	Box 644, Statesville, NC
Arganbright, John Ray	SO	TXT			1462 Wyandotte Rd., Columbus, OHIO
Ariail, William Coke	FR	EM	304 Fourth Ex 3130	TE2-5159	125 Beechwood Rd., Summit, NJ
Aridi, Fawzi Youssef	GR	CE	CE Dept. Room 238		Bayssour, Aley, Lebanon
Armentrout, Billy Warren	JR	IE	115 Hawthorne Rd.	VAR-7790	Box 781, Thomasville, NC
Armfield, Jerry Wilson	SO	NE	3153 Stanhope Ave.		Rt. 7, Box 230, Greensboro, NC
Armistead, Eugene Walker	SO	LE	4425 Bragaw Ex 15360		97 Beverly Rd., Asheville, NC
Armstrong, Bernard Franklin	UN	GS	305 Alexander	TE2-9349	7037 Lawyers Rd., Charlotte, NC
Armstrong, Ira Lewis		AGE	325 Sheppard	TE4-1289	Box 5, Ararat, NC
Armstrong, James Edward	SO	ARC	5616 Hillsboro	832-0012	5616 Hillsboro Rd., Raleigh, NC
Arette, Joseph Lee	FR	GS	304 N. Person St.	833-6977	103 Meyers Rd., Liverpool, NY
Arnold, John Howard	SO	AW	4425 Bragaw Ex 15095	833-7577	1411 Palmira Ave., Richmond, VA
Arnold, Joseph Carlton	SO	GS	Rt. 1, Creedmoor	TE2-7624	Rt. 1, Creedmoor, NC
Arnold, Robert Allen	SO	EE	216 Tucker Ex 4687	TE2-9387	6816 N. 29th St., Arlington 13, VA
Arrington, BURGIE Lafayette	FR	EE	470 St. Coll. Sta.	TE2-9387	1449 Edgewood Dr., Mount Airy, NC
Arrowood, Keith Morgan	SR	SED	130 Woodburn Rd.		Rt. 4, Box 547E, Charlotte, NC
Arroyo, Jullid Roger	JR	EST	2614 Avent Ferry Rd.		Av. Aranales 22F3-440 Lima, Peru
Arscott, James Lloyd	SO	MEA	2226 Hillsboro St.	TE2-2584	Box 876, Troy, NC
Artasanchez, Luis M.	JR	TXT	417A Bragaw	TE4-3909	22 Oriente 1413, Puebla, Mexico
Ashby, Carlton Stephen, Jr.	JR	IA	3 Maiden Lane		Rt. 1, Box 213, Havelock, NC
Ashby, Page Bryan	SO	FOR	224B Bragaw Ex 15303		RFD, Exmore, VA
Ashie, Earl LeRoy	UN	GS	2405 Greenway Terr.	TE4-5588	2405 Greenway Terr., Raleigh, NC
Ashford, Samuel Briggs	SR	ARC	2334 Glascock St.	VAR-4714	2334 Glascock St., Raleigh, NC
Ashley, Herbert Stewart	SO	CE	1324 Owen Ex 4550	832-3169	1329 Baez St., Raleigh, NC
Ashley, Jimmie Dail	SO	MTE	1223 Brooks Ave.	828-3862	101 Morris Cir., Edenton, NC
Ashley, Perlie Gene	SR	NE	1223 Brooks Ave.	828-3862	101 Morris Cir., Edenton, NC
Ashley, William Wade	SR	EE	308 Horne St.	TE2-7050	204 Jefferson St., Whiteville, NC
Anton, Max Roger	FR	EE	24 Syme Bx 3620	TE2-9421	5620 San Jacinto Rd., Atascadero, Calif.
Ashworth, Donald Jackson	FR	CH	252 Owen	832-9252	20 Carolina Ave., Brevard, NC
Askew, Laurin Barker, Jr.	JR	ARC	1204 Groveland Ave.	TE3-0359	2231 Camellia Dr., Wilmington, NC
Assakul, Kwanchai	JR	TXT			
Ataman, Selcuk	FR	TC	126 Bagwell Ex 3326	TE4-9219	Yaruk Selim hah Hukumet Cad. Paras, Turkey
Athearn, Donald Chesley	JR	FOR	125 Hawthorne Rd.		36 Davis Ave., Newport News, VA
Atkins, Carl Denny	SO	EE	1216 Franklin Rd.	TE2-4586	Rt. 3, Mebane, NC
Atkins, James Richard	SO	CE	105 Owen		Rt. 4, Kernersville, NC
Atkins, John Leslie	SO	ARC	Box 4524	TE2-9363	1218 Vickers Ave., Durham, NC
Atkins, Phillip Wilson	FR	EE	353 Owen Ex 4564	TE4-9300	Colfax, NC
Atkins, Sherrill Lee			304 Tucker	TE4-9739	Saluda, NC
Atkinson, Harold Smith	SO	CE	1324 Gardner St.	TE2-5765	1413 Clay St., Franklin, VA
Atkinson, Harry Wilson	SO	FOR	56 Tucker Bx 4806		6429 Jahne Rd., Richmond, VA
Atkinson, Herbert Emerson, Jr.	SO	ASZ	2825 Exeter Cir.	TE2-9387	2825 Exeter Cir., Raleigh, NC
Atkinson, Kirby Glenn	FR	ENG			Rt. 1, Box 31-A, Clarkton, NC
Atkinson, Roger Stanley	FR	MTE	2510-B Clark Ave.		Rt. 2, Elizabethtown, NC
Atmawidjaja, Rubini	JR	FOR	204 Harris St.	832-4655	Rubber Estate Dermaga Bogor, Java, Indonesia
Attia, Jack	FR	CH	Tucker Bx 4722		Box 678, Colon, Rep. of Panama
Audet, Alain			105 Gold	TE2-9263	2415 E. Sauve St., Montreal, Canada
Augsburger, David Emerson	JR	APT			554 Glenway Dr., Hamilton, OHIO
Aukel, Pete David	JR	MTE			3527 Main St., Chicago, IND.
Aukel, Harold Van	FR	ARC		832-9288	2305 Edgewood Ave., High Point, NC
Austin, Larry Michael	SO	FR	H-24 Mt. Stu. Hs.	828-6635	1800 Forest Rd., Durham, NC
Austin, Cloyd Michael	SO	EE	1500 Hillsboro St.	TE4-9754	425 5th St., N.W., Hickory, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Austin, James Lee	JR	AMA	846 McKimmon Vill.	832-4792	Box 5, Mineral Springs, NC
Austin, James Walter	NR	A	301 Pearson St., Apex	TE4-5650	301 Pearson St., Apex, NC
Austin, John Vernon	FR	UHD	161 Bagwell	TE4-9219	1216 Cedrow Ave., High Point, NC
Austin, Kermit Elmo, Jr.	JR	SA	2612 Clark Ave.	TE2-9484	111 Finch St., Clinton, NC
Austin, Thomas Forrest, Jr.	FR	SEC	162 Tucker Ex 4669	TE2-9358	1211 Brantford Ave., Silver Spring, MD
Austin, Thomas William	FR	AS	Owen Ex 4445	832-9115	Rt. 1, Wallow Springs, NC
Austin, William Wyatt, III	SC	EB	3221 Birmamwood Rd.	TE4-1738	3221 Birmamwood Rd., Raleigh, N.C.
Avril, John Scott	SC	FOR	16 Jymx Ex 3012	TE2-9421	54 Kilmarney Dr., Wexford, PA
Avant, Hugh Brackett	FR	TA	134 Owen		707 Arlington St., Forest City, NC
Avant, Julius Howard	FR	MEA	1216 Franklin Rd.	TE2-4586	Box 91, Bladenboro, NC
Averett, Philip Marston	SC	GN	335 Turlington Ex 4295		Box 94, Rt. 1, Salemburg, NC
Avery, Ernest Bryan	JR	ME	12-B Dixie Dr.		Rt. 1, Box 127, New Bern, NC
Avery, William Waigststill	JR	AE	Hd. Stu. Hous.		Box 56, Plumtree, NC
Aycock, Marvin Kenneth, Jr.	JR	SC	C-23 McKimmon Vill.	828-5263	Rt. 2, Warrenton, OR
Aycock, Nelson Gordon	JR	AMA	206A Bragaw Box 15267		1109 Edgerton St., Goldsboro, NC
Aycock, Edward Doy	JR	GHE	Bragaw Ex 15158		3116 Morson St., Charlotte, NC
Ayers, Grant Robert	JR	EE			Box 324, Boone, NC
Ayers, George George Metwalli	JR	TA	3413 Hillsboro St.	TE2-9992	11 Kasrelni St., Cairo, Egypt
Ayers, George George	JR	PMH	210A Bragaw Ex 15133	TE2-9179	408 Hill St., Warsaw, NC
Babb, Everette Hoke	FR	SE			Holly Springs, NC
Babcock, Richard James	SC	CRE	1607 Canterbury Rd.	TE4-6541	1607 Canterbury Rd., Raleigh, NC
Bach, James Jacob	SR	GHE	316 Bagwell Ex 3382	TE4-9151	200 Prince George Rd., Hopewell, VA
Backus, Richard A.	FR	ME	130 Page St., Cary	467-9669	157 Clover St., Stratford, CONN
Bader, Kenneth Allen	FR	ME	413 Gardner Ave.		370 Neef Rd., Cincinnati 38, OHIO
Badgett, Floyd Jackson	FR	SE	125 Brooks Ave.	839-2372	125 Brooks Ave., Raleigh, NC
Badgett, Roy Harris	FR	TAT	1306 Kent Rd.	TE2-2455	Rt. 4, Mount Airy, NC
Baer, Richard Tobias	FR	ME	116 Forest Rd.	TE2-9390	303 W. Guilford, Thomasville, NC
Baggett, Henry Clifford	FR	EE	1004 Nichols Dr.	TE4-1372	29 Dover St., Toms River, NJ
Bagully, Alan Michael	SR	MEA	225 Owen Ex 4480		1101 Courtland Ave., Reidsville, NC
			3200 Hillsboro St.		4313 Walker Rd., Charlotte 7, NC
Bahnsen, Charles Frederick, Jr.	FR	SEC	365 Owen Ex 4576	834-9836	9 Church St., Cooleemee, NC
Balden, Arthur Hamilton	JR	SE	2712 Rosedale Ave.	828-9939	709 Dogwood Ave., Myrtle Beach, SC
Baily, Edwin Richard	JR	ARI	2718 Clark Ave.	TE2-6451	Mt. Vernon St., Oxford, PA
Bailey, Henry David	FR	AMA	4200 Reavis Rd.	852-9911	4200 Reavis Rd., Raleigh, NC
Bailey, James Ronald	FR	SE	109 Owen		407 Fourth St., Marion, NC
Bailey, Henry David	SC	ME	367 Owen	TE4-9300	1731 Hedge St., Burlington, NC
Bailey, Michael Eugene	SC	AE	Ex 4477	TE4-9746	2212 Fla. Ave., Fernandina Beach, FLA
Bailey, Paul Leland	NR	AE	3005 Leonard St.	828-6684	1015 Chowan Ave., Lynchburg, VA
Bailey, Roger Andrew	SC	ME	222D Bragaw Ex 15301	TE4-9123	Woodsdale, NC
			205D Bragaw		738 Market St., Paterson, NJ
Bailey, Thomas Edward	FR	SE	1400 Park Dr.	TE3-2221	1400 Park Dr., Raleigh, NC
Baird, Bennett Ray	JR	ME	2620 Crestline Ave.	TE4-5060	2620 Crestline Ave., Raleigh, NC
Baird, Jarlton Edward	JR	TA	2620 Crestline Ave.	TE2-9710	630 Ashton St., Roanoke Rapids, NC
Baker, Arnold Douglas	JR	TAT	2713 Everett Ave.		Pinebluff, NC
Baker, Austin James	JR	ME	119 Owen Ex 4414	TE2-9115	Rt. 2, Box 217, Wilmington, NC
Baker, Charles Howard	FR	AT	227 Owen Ex 4482	TE2-9252	Box 123, Pineville, NC
Baker, Clarence Jerrald	JR	SE	501 Mills St.	828-8048	Waynesville, NC
Baker, Donald William	JR	AMA	224 Garden Pl.	832-1932	RFD 1, Belvidere, NC
Baker, Everett Alan	JR	EB	220C Bragaw		Box 426, Wadesboro, NC
Baker, Francis Macfarc	JR	AEA	224 Owen Ex 4479	TE2-9410	Rt. 1, Louisburg, NC
Baker, Henry Roy	JR	ME			1127 Arrington Ave., Wilson, NC
Baker, James Philip	FR	SE	120 Colleton Rd.	TE3-4998	120 Colleton Rd., Raleigh, NC
Baker, James Robert	JR	ARC	Rt. 3, Box 59, Apex	H07-2574	Rt. 3, Box 59, Apex, NC
Baker, John Birc	JR	TXT	204 Watauga Ex 3022	TE2-9132	247 N. 26th St., Wilmington, NC
Baker, Larry Franklin	JR	MEA			Rt. 1, Box 417, Rocky Mount, NC
Baker, Ray Everett	JR	ME	401 1/2 Auersboro Rd.	EM2-2361	Rt. 7, Reidsville, NC
			Garner		401 1/2 Auersboro Rd., Garner, NC
Baker, Robert Eugene	JR	SE	141 Owen Ex 4435	TE2-9115	1039 McLain Rd., Kannapolis, NC
Baker, Vernon Bradford	JR	SE	356 Owen Ex 4567	TE4-9300	1525 Cypress St., Rocky Mount, NC
Baker, Currie Currie	FR	MEA	Tucker Ex 4670	TE4-9828	1312 Markham Ave., Durham, NC
Baker, William Curtis	FR	ME	48 Tucker Ex 4798		Rt. 3, Box 333, Rocky Mount, NC
Balcasar, Serafin Humberto, Jr.	JR	TAT	4174 Watauga Ex 15196	TE4-3909	3 Pte. 1307, Puebla Pue, Mexico
Baldwin, Cullen Keith	JR	SE	5 Rosemary St.	TE2-9725	1000 Chester St., Durham, NC
Baldwin, George William	JR	PMH	345 Shepherd St.	TE2-0951	Box 97, Vass, NC
Baldwin, Wayne Johnston	JR	SEC	134 Turlington	TE4-9279	127 Yorktown, Wilmington, NC
Hall, Carl Marion, Jr.	JR	SE	302 Tucker	TE4-9739	1600 Shepard St., Morehead City, NC
Hall, Kirby Lee	JR	SE	1220 Duplin Rd.	833-3047	1220 Duplin Rd., Raleigh, NC
Hall, Marcus Jerome	JR	SE	302A Bragaw Ex 15310	TE4-4545	Pineywood Rd., Thomasville, NC
Ballance, Bobby Allen	FR	ME	231 Tucker Ex 4702	TE4-4871	2611 Liberty Rd., Greensboro, NC
			401 1/2 Auersboro Rd.		1318 Canterbury Rd., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hallance, John Battle	JR	NE	317 Bagwell Ex 3383	TE4-9151	Rt. 3, Box 148, Four Oaks, NC
Hallard, Dennis Harry	SO	ME	210 Cox Ave. Apt 2		Rt. 1, Box 174, Hendersonville, NC
Hallard, Gerald Blake	SR	FUM	Campus YMCA Bm 4	TE4-2184	420 New Haw Creek Rd., Asheville, NC
Hall, Kenneth Edward					Rt. 4, Kinston, NC
Hallow, James Thurman	SK	ME	216 Park Ave.	TE4-8821	216 Park Ave., Raleigh, NC
Hallow, Thomas Howard	SO	EE	606 S. Boylan Ave.		Box 484, Blue Ridge, GA
Hankhead, Jerry Lloyd	SR	IA	2807 Wade Ave.	TE2-0452	604E Hamlet Ave., Hamlet, NC
Hankhead, Olin Lee, Jr.	SO	EE	255 Tucker		621 Jefferson St., Hamlet, NC
Hanks, Harvey Thomas	SR	AMA	D-24 McKimmon Vill.	TE4-3220	Rt. 1, Box 108, Newton, NC
Hanks, Norman Earl	GR	APY	Rt. 5 Box 214 M	TE3-0909	1704 Tryon Rd., New Bern, NC
Hannan, William Charles	FR	PPT	255 Owen Bx 4506	TE2-9410	Beech St. MD #16, Newburgh, NY
Hargona, Paul Joseph	FR	EE	228 Owen Bx 4483	TE2-9252	1313 Lamont Dr., Winston-Salem, NC
Barbee Horace Burke	SO	IE	Box 15120	TE4-9179	Maysville, NC
Barbee, Morris Hawthorne	SR	TXT	3000 Medlin Rd.	828-4036	3000 Medlin Rd., Raleigh, NC
Barbee, Robert Paul	SR	CHE	2715 Kilgore Ave.		Rt. 1, Box 86, Oakboro, NC
Barbee, Willard Harold	SK	PY	2101 St. Mary's St.	TE2-1911	2101 St. Mary's St., Raleigh, NC
Barber, Joseph Howard	SO	ME	133 Bagwell		113 Plum St., Williamston, NC
Barber, Simon Wayne	SO	AED	208 1/2 Jones Franklin	833-3051	Jamesville, NC
Barbour, Max O'Brien	UN	GS	106 E. North St.	TE4-2957	106 E. North St., Raleigh, NC
Barbour, Nancy Spence	FR	RPA	2710 Kittrell Dr.	VA8-3848	2710 Kittrell Dr., Raleigh, NC
Barclay, William John, Jr.	FR	GS	208 Avon Dr.	832-0737	208 Avon Dr., Raleigh, NC
Bard, Cecil Jake	FR	ASZ	State Hospital Dorm	TE2-7581	Station "B", Raleigh, NC
Bard, Gwyn Stanley	SO	FMM	4226 Turlington	834-9279	Jefferson, NC
Bard, Ronald Stephen	SR	TXT	304 E. Park Dr.	TE2-7638	100 Euclid Pky., Asheville, NC
Barden, Joel McArthur, Jr.	SO	TAT	MSH Q-301	TE3-6725	MSH Q-301, Raleigh, NC
Barden, Mary Helen	SR	ASR	121 Park Ave.	TE3-2395	121 Park Ave., Raleigh, NC
Bare, Thomas Lee	SO	ME	box 5566	832-9102	Box 14, Marietta, NC
Barefoot, Bruce Dwight	SO	AI	131 Tucker		Rt. 1, Newton Grove, NC
Barefoot, Richard Lowell	SR	ME	2612 Clark Ave.	TE2-9484	1321 Heather Lane, Charlotte, NC
Barger, Jerold Glen	SO	MEA	321D Bragaw		Box 1536-A, Hickory, NC
Barham, Richard Dennis	FR	ME	Tucker Bx 4739	TE2-4323	Sedley Rd., Franklin, VA
Barham, Samuel Allison	SR	NE			2939 Ft. Baker Dr., Washington, DC
Barick, Bruce Huntley			T. 3	834-6618	Rt. 3, Raleigh, NC
Barizi	GR	EST	5 1/2 Dixie Ave.		Bondongan 213, Bogar, Indonesia
Barkalow, Joanna	FR	ASZ	2610 Wade Ave.	TE3-4397	2610 Wade Ave., Raleigh, NC
Barker, Jeter Olive, Jr.	SR	EE	3810 Sherman Ave.	828-5665	106 Northridge St., Greensboro, NC
Barker, John Coombs	FR	EE	310 Owen Bx 4527		410 Maupin Ave., Salisbury, NC
Barker, Leo Ivan, Jr.	SO	LE	1501 Benehan St.	834-0271	316 E. 2nd Ave., Gastonia, NC
Barker, Walter Christopher			19 Syme Bx 3615		611 Mitchell St., Kinston, NC
Barker, William Fredrick	FR	GS	105 Owen Bx 4403	TE2-9437	Rt. 1, Box 198, Holly, NC
Barkley, John Gayle	SO	NE	Bx 3314 State Coll.	TE4-9219	Pine St., Whiteville, NC
Barkley, Fred Joe	JR	ASR	2111 Bragaw Ex 15072		Rt. 2, Lincolnton, NC
Barksdale, Robert Giles	SR	AMA	2110 Reaves Dr.	833-3526	2110 Reaves Dr., Raleigh, NC
Barlow, Ray Harriner	FR	RPA	Bragaw Bx 15232		506 Custis St., Crewe, VA
Barnard, James Noel, Jr.	JR	CEC	16 Enterprise Apt 3		Rt. 4 Macon Cir., Lynchburg, VA
Barnes, Alonzo Merrick	SR	RPA	130 Hawthorne Rd.	TE2-9151	6156 Argyle St., Phila., PA
Barnes, David Livingston	FR	POM	423A Bragaw Bx 15198		Princess Anne, MD
Barnes, Edgeworth Beddoes	SC	NG	2708 Everett Ave.	TE2-7013	2708 Everett Ave., Raleigh, NC
Barnes, Henry Edward, Jr.	JR	FMM		VA9-2772	Bassett, VA
Barnes, James Elmore	SR	CE	2708 Everett Ave.	TE2-7013	2708 Everett Ave., Raleigh, NC
Barnes, James Fletcher	SO	ARC	326 Syme		1203 Sauls St., Wilson, NC
Barnes, John Stephen	JR	ATI	Ex 3334	TE2-9131	Rt. 5, Box 273, Glen Allen, VA
Barnes, Lawrence Duke	GR	JAE	2256 The Circle	828-2926	2256 The Circle, Raleigh, NC
Barnes, Peggy W.			2700 Bedford Ave.	TE3-1876	Rt. 2, Lucama, NC
Barnes, Ray	GR	CE	2401 Barmettler	828-5652	Rd 5, Box 447, High Point, NC
Barnes, Ray Winston	SO	NE	18 Horne St.		Box 10, Arbor Lane, Rocky Mt., NC
Barnes, Sanford Taylor	FR	ASE		TE2-9119	Rt. 2, Lucama, NC
Barnes, Sylvia Gregg	GR	PGY	2929 Wade Ave.	828-4288	Rt. 1, Fair Bluff, NC
Barnett, George Wayne	FR	NE	4421 North Blvd.		319 Blowing Rock Rd., Boone, NC
Barnhill, Charles Thurman	JR	PY	Watauga Bx 3037	TE2-9132	2108 Klein Rd., Wilmington, NC
Barnhill, James Turner, Jr.	JR	AMA			2500 Shenandoah Ave., Durham, NC
Barnhill, Marvin Taylor	FR	A			Box 32, Stokes, NC
Barnhill, Michael Von	SR	IE	407 S. Boylan Ave.		Box 374, Battleboro, NC
Barnhill, Robert Kelly	SR	CE	1720 Hillsboro St.		Box 446, Greenville, NC
Barnwell, Richard Herbert			201 Syme Bx 3533	832-4150	Rt. 1 Box 189, Hendersonville, NC
Barr, Anthony James		PY	Box 5392		752 Springfield, Summit, NJ
Barrett, Albert Tennyson	SO	RPA	602 Wimbleton Dr.	928-4210	602 Wimbleton Dr., Raleigh, NC
Barrett, Bernie Gene			Box 71, Rt. 1, Cary		112 Peach St., Shelby, NC
Barrett, Fred Smith, Sr.	JR	AMA	B-21 McKimmon Vill.	828-8778	Box 153, Oak City, NC
Barrett, George Hull	SR	ME	126 Becton Bx 3726		3705 Windom Pl. N.W., Washington, DC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Barrett, George Ray	FR	ME	430 Tucker Ex 4707	TE2-9387	901 Elm Ave., Dunn, NC
Barriere, Diane Florence	FR	ME	2405 Grant	VAR-5117	2405 Grant Ave., Raleigh, NC
Barriere, Diane Florence	FR	AWV	206 Forest Rd.		2219 Hardin Cir., Hendersonville, NC
Barriere, Diane Florence	FR	FF	200 Gardner Hall		Kra 41#61-46, Barrangulla, Atlantico, Colombia
Barringer, Luther Bradford	FR	II	514 Lynde Ex 3578	832-9222	Box 77, Richfield, NC
Barringer, Luther Bradford	FR	ME	110 Watauga	TE2-9447	Box 77, Richfield, NC
Barringer, Luther Bradford	FR	LE	3800 Western Blvd.	VAR-8952	907 DeSota Ave., Kannapolis, NC
Barrow, Charles Phill	FR	ME	808 Burke St.	TE2-4553	808 Burke St., Raleigh, NC
Barrow, Charles Phill	FR	AWJ	57 Tucker Bx 4807	TE2-9237	1818 Independence Rd., Greensboro, NC
Bartel, Robert Edward, Jr	FR	ME			738 W. Sumter St., Shelby, NC
Bartelt, Richard Thomas	FR	POR	Ex 15381	TE4-9754	1368 Hilltop Rd., Charlottesville, VA
Bartholomew, Norman Eugene	FR	ARC	1306 Filmore St.	TE3-8383	1306 Filmore St., Raleigh, NC
Bartlett, Paul Thomas	FR	ME	Box 15110		204 Hillcrest Cr., Boone, NC
Barton, Walter Lee, Jr.	FR	ME	306 Becton Bx 3774		3209 W. Market St., Greensboro, NC
Barwick, Allen Joseph	FR	AME	Bx 15374	TE2-9185	RD 2, Grifton, NC
Barwick, Arnold Glenn	FR	ENG	284 Lynde		600 E. Dixie Tr., Goldsboro, NC
Basham, Hersy Grant III	FR	FRS	Bx 5545	TE2-7708	219 Lansing Ave., Lynchburg, VA
Basile, Donald E.	FR	LA	304 F Martin	TE2-5159	294 Weaver St., Larchmont, NY
Bass, Clemon Elton, Jr.	FR	AGE	318 Becton Bx 3774	TE2-9372	Badham Rd., Edenton, NC
Bass, Joseph Bickett	FR	ARC	17 Enterprise St.	TE4-6510	3693 Yale Ave., Winston-Salem, NC
Bass, William Hartwell, Jr.	FR	IF	404 Stacy St.	VAR-9678	404 Stacy St., Raleigh, NC
Batchelor, James Cavelli	FR	SE	2136 Mayview Rd.	TE3-8534	312 S. Howell St., Rocky Mt., NC
Bateson, William McKallip	FR	AGC	415 Gardner St.		9374 Sunview Rd., Salem, ORE
Batten, Colin Kelly	FR	ATL	Watauga Bx 3051		Rt. 2, Lucama, NC
Battiste, Edward Louis	FR	SET	3451 Redbud Lane	834-8773	3451 Redbud Lane, Raleigh, NC
Batten, George Oates	FR	ME	155 Tucker	TE2-9388	821 Jackson St., Roanoke Rapids, NC
Batts, Vance Ralph	FR	EST	986 Harp Terrace		206 Grubb St., Hertford, NC
Batts, William Edwin, III	FR	MEA	414C Bragaw Bx 15385	TE4-9754	RD 4, Box 399, Wilson, NC
Baucum, Charles Daniel	FR	ME	229 Tucker		Box 245, Apex, NC
Baucum, Clifton Pittard	FR	IA	Vetville 28	VAR-2278	UK 28, N.C. State, Raleigh, NC
Baucum, John Reynolds	FR	NE	2200 Bragaw Bx 15296		1906 Ann St., Wilmington, NC
Baucum, Larry Clayton	FR	LE	104 Gold Bx 3204	TE2-9263	2715 Ridge Ave., Concord, NC
Baucum, Thomas Curwell	FR	TAT	305 Middleton Ave., Cary	HO7-1589	305 Middleton Ave., Cary, NC
Baucum, Tony Jackson	FR	ARC	200 Brooks Ave.	TE2-4331	Rt. 2, Polkton, NC
Baucum, Walter Keith	FR	PSC	2412 Van Dyke Ave.		Rt. 1, Monroe, NC
Baucum, Vann William	FR	ME	Watauga Bx 3022	TE2-9132	Rt. 3, Marshville, NC
Bauerlein, John Sutter	FR	CE	21 Enterprise St.	834-2815	315 East St. N., Talladega, ALA
Baum, Harry Wright	FR	LE	128 Tucker Bx 4639		Rt. 1, Cana, VA
Baxley, Raiford Douglas	FR	IA			Box 427, Siler City, NC
Baxter, Edward Joseph, Jr.	FR	LE	112 Cox Ave.	833-0411	1803 W. Market, Greensboro, NC
Baxter, Michael Edward	FR	ANA	16 Enterprise St.	828-6804	6306 Robbins Rd., Guilford College, NC
Beach, Lee Roy	FR	ME	3060 Bragaw Bx 15320		Rt. 1, Box 185, Oak City, NC
Beacham, Terry Dough	FR	DN	206 Alumni Bldg.	TE2-9322	Kitty Hawk, NC
Beal, Archibald Youmans	FR	TAT	4100 Bragaw Bx 15310	TE4-9754	3725 S. Alston Ave., Durham, NC
Beal, Robert Lester	FR	AGC	317 Tucker Bx 4748	TE2-9323	613 E. McBee St., Lincolnton, NC
Beale, William Joseph III	FR	AWJ	160 Owen Bx 4451	TE2-9437	Box 188, Jackson, NC
Beam, Edwin Columbus	FR	GS	224 Bagwell	832-9131	RFD 5, Shelby, NC
Beaman, Harold Mitchell	FR	AWA			512 C. C. Rd., Ahoskie, NC
Beaman, John Robert, Jr.	FR	ABL	217 Bagwell Bx 3349	832-9131	Rt. 5, Box 662-B, Asheville, NC
Beaman, John Robert, Jr.	FR	ABL			RFD 1, Box 498, Ayden, NC
Beamon, James Dewey	FR	ME	Owen Box 4472		Rt. 6, Box 624, Goldsboro, NC
Beamon, Paul Steven	FR	TE	235 Tucker Bx 4705	TE2-9307	271 Charlotte Rd., Concord, NC
Bean, Carl Newton, Jr.	FR	FR	3005 Leonard St.	VAR-6684	46 Coleman Ave., Asheville, NC
Beard, Daniel Clay, Jr.	FR	AWJ		TE2-9421	Box 41, Pittsboro, NC
Beard, Michael Eugene	FR	ME	7 Lynde Bx 3000	TE2-9421	404 East "H" St., Erwin, NC
Beard, Robert E.	FR	ME	607 N. Blount St.		Rt. 2, Bailey, NC
Beard, Sam Glenn, Jr.	FR	IF	205 Alexander Bx 4137	TE4-9746	Box 384, Pittsboro, NC
Beasley, James Dale	FR	LE	2000 Bragaw Bx 15358	TE4-9253	1603 Hamilton St., High Pt., NC
Beasley, Joseph Leroy	FR	CHB	Tucker Bx 4711		305 S. Market St., Benson, NC
Beasley, Marvin Coleman	FR	TE	324B Bragaw		912 W. Mauney St., Gastonia, NC
Beaver, Benjamin Taylor	FR	ME	Gold	TE2-9263	17 Rue Jasmin, Paris XVI, France
Beaver, Benjamin Taylor	FR	SE	403A Bragaw Bx 15157	TE4-9757	1109 Emerald, Salisbury, NC
Beaver, Harrison Alexander	FR	ARC	256 Owen Bx 4507	832-9252	1110 Highland Ave., Landis, NC
Beaver, Leonard Ray	FR	ME	0-23 McKimmon Vill.	VAR-9884	Rt. 3, Kannapolis, NC
Beck, Douglas F.	FR	ME	110 Watauga		207 West 8th St., Lexington, NC
Beck, Jerry Linsey	FR	IA	Tucker Bx 1685	TE4-9828	610 Westside Dr., Lexington, NC
Beck, John George	FR	ARC	2609 Clark Ave.	TE4-1384	321 Walnut St., Sellersville, PA
Beck, Lonnie Charles	FR	ME	350 Tucker Bx 4777	TE4-9739	509 W. Morgan St., Wadesboro, NC
Beck, Warren Lane	FR	TE	7 Enterprise	TE4-0435	502 N. Yarkin Ave., Spencer, NC
Beckerdite, Fred Willie	FR	ME	121 Turlington	834-9279	Rt. 9, Winston-Salem, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Beckom, Jimmie Lee	FR	CE	203 Tucker	TE2-9387	Rt. 2, Burlington, NC
Becton, Francis Jordan	JR	ATF	Bx 4539	TE4-9300	Box 380, Rt. 2, Newport, NC
Becton, Nancy Amelia	JR	AGV	206 Forest Rd.		69 Madeline Ave., Asheville, NC
Beeason, Fred Vaughn	SO	CE	112-1 Bragaw	TE2-9140	Lakewood Dr., Monroe, NC
Beeason, John Edward	SR	ME	211B Bragaw		4522 Reidsville Rd., Winston-Salem, NC
Beeason, Willis Edwin	FR	APL	152 Owen Bx 4443	TE2-9437	Rt. 1, Sophia, NC
Beineke, Walter Frank	GR	FOR	0-13 MEH	834-9673	4116 E. 34th St., Indianapolis, Indiana
Bell, Arland LeVa	FR	ME	113 Bagwell Bx 3345	832-9131	105-A Oakwood Dr., Havelock, NC
Bell, Cecil Roland, Jr.	Jr	ME			Box 195, Pilot Mtn., NC
Bell, David Wright	SO	MEA	3160 Bragaw Bx 15341		Box 293, E. Flat Rock, NC
Bell, Durham Keith	GR	PP	1508 Frank St.	833-7937	Box 99, Watkinsville, GA
Bell, James Harold	FR	WE	Becton Bx 3723	TE4-9956	Rt. 2, Lillington, NC
Bell, John Samuel	JR	LE	204 Faircloth St.	834-1025	204 Faircloth St., Raleigh, NC
Bell, Lawrence Joseph	FR	WH	Box 3029		606 E. Church St., Smithfield, NC
Bell, Richard Bailey	FR	ARC	115 Hawthorne Rd.		335 Clement Ave., Charlotte, NC
Bell, Robert Adolphus	SO		416B Bragaw		1305 Edgerton St., Goldsboro, NC
Bell, Wayland Kenneth	SO	LE	420B Bragaw Bx 15401		Rt. 2, Faison, NC
Bellis, Ann Louise	Jr	AMA	119 N. Boylan Ave.	VAB-4829	119 N. Boylan Ave., Raleigh, NC
Bellis, Vincent Jerome	GR	ME	119 N. Boylan Ave.	VAB-4829	119 N. Boylan Ave., Raleigh, NC
Beltzer, Murray Ray	SO	TC	325 Burlington	TE2-9192	1222 Link Rd., Winston-Salem, NC
Bender, Filmore Edmund	GR	AGC	1906 Fairway Dr.	834-1214	Rt. 5, Box 502, Bakersfield, CAL
Bender, Richard Allee	SO	EE	1512 Simpkins St.		435 Lakeshore Dr., Fayetteville, NC
Benfield, Max Earl	JR	ME	318 Alexander Bx 4181	TE2-9349	Rt. 5, Box 529, Hickory, NC
Bennett, C. Leonard	GR	EE	1501 Benahan St.	TE4-0271	Groton St., E. Pepperell, MASS
Bennett, Charles Radford	FR	SE	106 Becton Bx 3706		4603 Grendel Dr., Greensboro, NC
Bennett, Hugh Jerome	SC	AED			Rt. 2, Lillington, NC
Bennett, Jerry Lee	GR	CH	166 Welch Bx 3242	TE4-9119	Box 666, Kernersville, NC
Bennett, Keith Anthony	SC	WT	2314 Hillsboro St.		6907 Terry Ln., Springfield, VA
Bennett, Luther Alcorn, Jr.	SO	EE	364 Owen	834-4300	1012 Guilford Ave., Greensboro, NC
Bennett, Richard Wayne	SC	ABH	602 Dixie Trail	828-9528	Rt. 2, Box 165, Ellerbe, NC
Bennett, Roy Ray, Jr.	SR	EE	2922 Barmettler St.	TE2-1210	2922 Barmettler St., Raleigh, NC
Benson, Charles Kenneth	FR	ME	307 Becton	TE2-9372	1728 Erwin Ave., Burlington, NC
Benson, Mickey Allen	Jr	WE	4500 E. Park		2000 E. Park, NC
Benson, Ronald Ray	Jr	NE	100 E. Whitaker Mill	834-1823	100 E. Whitaker Mill, Raleigh, NC
Benson, William Atkinson	FR	ARC	125 Syme	832-9288	2327 Vernon Dr., Charlotte, NC
Bentley, Harry Thomas III	Jr	TY	Jumpus YMAA	TE2-7184	3149 Fairfax Dr., Charlotte 9, NC
Benton, David Ross	Jr	WT	331 Turlington		Box 272, Warsaw, NC
Benton, Jerry Wayne	SC	IE	215 Alexander	TE4-9746	Rt. 1, Independence Rd., Winston-Salem, NC
Benton, Larry Kent	SO	AGI	216 Hawthorne		403 Warren Ave., Kinston, NC
Benton, Thomas Edwin, Jr.	SC	IE	1620 Hillsboro St.	TE4-9378	517 James St., Laurinburg, NC
Benvenuti, Roger Raymond	GR	AT	2329 Yancey St.	828-9449	58 Line St., Adams, MASS
Berenyi, Nicholas	JR	WE	0-12 McKimmon Vill.		0-12 McKimmon Vill., Raleigh, NC
Berkelhammer, Alan D.	Jr	ME	304 E. Park Dr.	TE2-7618	3008 Madison Ave., Greensboro, NC
Bernard, Michael Humphrey	FR	ME	326 Tucker, Bx 4757	TE4-9739	Pritchard La., Greens Farms, CONN
Bernhard, Frederick Eugene	SR	RPA	309C Bragaw Bx 15118	TE4-9179	110 N. Thomas St., Arlington, VA
Bernhardt, Charles Edward	FR	CEC	Tucker Bx 4685	TE4-9828	Rt. 4, Box 307, Lexington, NC
Berrier, Bobby Lee	JR	MEA	11 Enterprise Apt. 2	TE2-9349	Park St., China Grove, NC
Berrier, Lewis McCoy	Jr	CEC	4171 Alexander	TE2-9349	Rt. 2, Kernersville, NC
Berrier, Richard Neil	Jr	TAT	820 Brent Rd.	TE4-0143	820 Brent Rd., Raleigh, N.
Berry, Billy	FR	AGI			Rt. 1, Box 33, Northwest, VA
Berry, Dewey William, Jr.	SR	TAT			2729 1st Ave., Hickory, NC
Best, Billy Burke	SR	CH			Stumpy Point, NC
Best, Wilmore Vance	FR	AGI	206B Bragaw	TE4-9123	Box 330, Turkey, NC
Best, James Elmer	FR	AGI	Bx 4816	832-9186	Box 1, Box 144, Mt. Olive, NC
Best, Thomas Franklin	SR	AGI	225 Syme Bx 3557	832-9150	Rt. 1, Pinetops, NC
Best, W. Dean	GR	ARC	Box 5674	TE2-7769	Box 5674, Raleigh, NC
Beveridge, Arthur Gordon	UN	GS	Box 3392		52 Franklin Pl., Summit, NJ
Beyer, Frederick Louis, Jr.	Jr	WE			410 Everett Pl., Durham, NC
Biddle, Ronald Errington, Jr.	FR	EE	3 Becton Bx 3805	832-9261	221 S. Elm St., Asheville, NC
Bigelow, Lucius Cummings	FR	EE	1004 W. Lenior St.	828-5092	131 Pinecrest Rd., Durham, NC
Bigger, Francis Bradley	GR	TAT	W&L Trailer Ct.		110 Hilton St., Monroe, LA
Bigger, Ralph Lee	Jr	CH	2426 Hillsboro St.	TE4-9859	Box 193, Cordova, NC
Biggers, Sherrill Bost	FR	AME	58 Owen Bx 4592		207 Pleasant St., Spindale, NC
Biggerstaff, Robert Thurman	SR	EE	Box 15401	828-8182	Rt. 3, Vale, NC
Biggerstaff, Tom	GR	WT	Vetville 20		Rt. 1, Sophia, NC
Biggs, Charles Leon, Jr.	FR	ME	309 Alexander	TE2-9349	1407 Lakeview Dr., Fayetteville, NC
Biggs, Richard Charles	SO	AGI	309 Liberty St.		309 Liberty St., Durham, NC
Bilbro, Charles Richard	SO	EE	Syme Bx 3580	832-9222	3814 Broadacres Dr., Greensboro, NC
Bilger, William Daniel	FR	EE	351 Tucker Bx 4778	TE4-9939	2510 Shenadoah Ave., Durham, NC
Billing, James Gunter	SO	TAT	7 Enterprise	TE4-8892	2700 University Dr., Durham, NC

NAME	YR	CUKR	ADDRESS	TELEPHONE	HOME ADDRESS
Bird, Paul Edmond, Jr.	SO FR	AMA CE	240 Tucker Bx 4710	TE4-9828	King, NC 380 E. Washington St., Wytheville, VA Pine Level, NC
Bissette, George Hubert Bitter, Philip Kerr Elvins, Joseph Powell	JR FR FR SO SO FR	EE JHE LAT JE CE	Tucker Bx 4657 2514 Clark Ave. 1709 Hillsboro St.	TL2-9388 TE4-9148	Rt. 1, Box 47A, Denver, NC 162 Kimberly Ave., Asheville, NC 244 Surry Ave., Eldin, NC
Black, Ben Burleson, Jr. Black, Edward Eugene, Jr. Black, Gerald Michael	FR FR FR	A AMA ARC	330 Syme Bx 3594 122B Bragaw Bx 15405 125 Syme	832-9222 832-9288	Rt. 1, Box 341A, Cary, NC Rt. 2, Box 80, Stanfield, NC 29 Lee Ave., Asheville, NC 317 Woodrow Ave., High Point, NC
Black, Thomas Steven Blackard, Robert Francis Blackburn, Reuben Golding, III Blackburn, Robert Maylon Blackburn, Sammy Gayle Blackshaw, George Lansing Blaine, Charles Turner Blair, Joseph Grant	SO SO SO SO JR FR FR JR	MEA EL GS AMA MEA NE GE WT FOM TAC	53 Owen Bx 4587 214A Bragaw Bx 15286 23 Becton Bx 3824 Bx 4516 2715 Kilgore Ave. 909 Greenwich St. 205 Pine St. 340B Bragaw Bx 15350 109 Eagwell 214 Syme Bx 3546	TE2-9142 TE4-9123 832-9261 TE2-9410 TE4-5088 TE4-6577 TE4-9253 TE4-9219	215 Park St., Lexington, NC 10th & Jackson, Mayodan, NC Box 145, Murrells Inlet, SC Rt. 5, Gwynwood Dr., Mt. Airy, NC 901 Fugate Ave., Charlotte, NC 15 Croyden Dr., Merrick, NY 205 Pine St., Raleigh, NC 213 Varden Pl., Swannanoa, NC 620 Thomas St., Thomasville, NC Box 177, Jamestown, NC
Blair, William Monroe	FR	NE	323 Owen Bx 4538	TE4-9300	4824 Carmel Park Dr., Charlotte, NC
Blake, Norman Gordon	JR	EW	Bx 15377 1805 Ridge Rd.	TE2-3550	2390 Boone Ave., Winston-Salem, NC 1805 Ridge Rd., Raleigh, NC
Blalock, Hoyle Lee, Jr. Blalock, Lloyd Vance Blalock, Thomas Wilbur	FR FR SO	TXT AMA JE	809-A Daniels St. 345 Westaue 337 Turlington	TE3-9378 TE2-9132	201 12th St., Sanford, NC No. Main, Boiling Springs, NC 1327 Bolton St., Winston-Salem, NC 2047 Elizabeth Ave., Winston-Salem, NC
Blanchard, Harold Chris Blanchard, James Birven Blanchard, Stanley Wayne	SR SR JR	FOM EE ATE	104B Bragaw Bx 15218 710 Glenwood Ave. 310B Bragaw	TE3-1356	N. Thompson St., Whiteville, NC Rt. 1, Turkey, NC 1104 N. Hughes Blvd., Elizabeth City, NC
Blanchard, Warren Meade Bland, Daniel Alderman, Jr. Blankenship, Herbert Michael Blanton, Albert Battie, Jr. Blanton, Dwight Hubert Blanton, James Overton, III Blanton, Marshall Stuart Blanton, Richard Coleman Bledsoe, Jim Allen Blekken, Carl Keeman	FR FR SO FR FR SO SO SO FR FR FR	ME MEA CRE ASV MEA CEE THE AMA IE ENG	352 Tucker Bx 4779 2109 Manuel St. 2601 Clark Ave. Owen Bx 4590 122 Owen 612 Mills St. 479A Bragaw Bx 15169 1201 Kent Rd. P-214 MSH 14 Syme Bx 3614	TE4-9738 TE3-7990 TE4-8631 832-9252 TE2-9115 833-0945 TE4-9757 TE3-2547	501 Curtis St., Ahoskie, NC 2109 Manuel St., Raleigh, NC Rt. 1, Box 329, Horse Shoe, NC Rt. 5, Shelby, NC Rt. 2 Box 97A, Laurel Hill, NC 314 Vintage Ave., Winston-Salem, NC 702 W. Sumter St., Shelby, NC 513 Woodside Dr., Shelby, NC 5207 Cypress, Fayetteville, NC 29 Canterbury St., Hingham, MASS
Blevins, Donald Lee Blocker, Henry Lerrick Blondeau, Harold Earl	JR JR JR	HAT JHE IE	4337 E. Galax Dr. 209 Brooks Ave. Bx 4184	833-0791 TE2-9349	932 Tenn Ave., Bristol, TENN 209 Brooks Ave., Raleigh, NC 29 Country Club Dr., Glen Burnie, MD
Bloomer, Lawrence James Blount, Paul Brittle Blue, Thad L. Blum, Frederick David Blum, Nancy Marie Blumenschein, Almiro Blythe, Douglas Cale	JO JO JO MR MR MR FR	FOR OHE AI EE PV M CE	130 Hawthorne Rd. 218 Becton Bx 3752 353 Owen Bx 4563 1044 Nichols Dr. 1814 Park Dr. 1110 Parker St. 247 Owen Bx 4472	TE2-9151 TE2-9334 TE4-9300 833-2075 TE3-0874 TE2-5415 TE2-9410	365 Orchard Dr., Pittsburgh, PA Rt. 1, Box 71, Franklinton, NC Rt. 3, Carthage, NC 6112 Hyde Cir., Norfolk, VA 33 Volturmo St., Ft. Bragg, NC 1110 Parker St., Raleigh, NC Rt. 2, Box 93, Franklin, VA
Bochenek, Peter Frederic Bock, Paul H., Jr. Boedicker, James Joseph Boehme, John V. A. Boese, Donald Richard	FR JO JR JO JR	JA EE ASE EE SEL	327 Tucker Bx 4758 1304 Hillsboro St. 307 Syme Bx 3571 5 Dixie Tr. Apt. 5 16 Becton Bx 3818	834-9886 TE2-9222 832-9061	208 Brook Rd., McLean, VA Rt. 3, Box 173, Jamestown, VA 1430 River Rd., High Point, NC 344 Tranquil Ave., Charlotte, NC 2712 Woodvale Dr., Winston-Salem, NC
Bogart, Barry Carling Bogle, Clyde Kay Bogue, Cameron Curtis Bohe, Edward Eugene Boisky, Robert Luther	FR JR JR JR FR	EE ATI EST ASV CEC	331 Owen 1718 Hillsboro St. 2711 Vanderbilt 711 Nondandy St. Cary 218 Bagwell	VA8-4464 828-7572	216 Rt. 69, Hampton, NJ Rt. 6, Box 190, Salisbury, NC 2711 Vanderbilt, Raleigh, NC 431 Johnson St., Fayetteville, ARK 12 Sturgis St., Ft. Bragg, NC
Bolejack, William Garland Boles, Michael Alston Bollinger, Clay Berlin Boltrek, Peter Brand Bonard, Paul Jerry	FR FR FR FR FR	IE ME ABD FNG FOR	124B Bragaw 1208 College Pl. 301 Tucker G-26 MSH	TE2-9323 828-4831 TE4-9253	Rt. 2, Reidsville, NC Rt. 1, Jonesville, NC Rt. 2, Box 241, Granite Falls, NC 903 Alan Dr., Antwerp, NY
Bone, Dale Cary Bonacillo, Abigail Valencia Bone, Talbot Wade Booker, Harold	FR FR FR FR	ABC EST CE MI	306B Bragaw Alexander Bx 4122 2305 Clark Ave. 724 S. Saunders St.	VA8-2683 TE4-5893 828-0256	2005 Lee Ave., Sanford, NC 1451 S. Church St., Burlington, NC Rt. 3, Nashville, NC Garchitorea, C. S. Philippine Isles 4100 Picardy Dr., Raleigh, NC Rt. 1, Box 84, Varina, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Boone, Charles Lindsey	SC	IA	139 Alexander Ex 4131	TE2-4450	Rt. 5, Box 361, Clinton, NC
Boone, George Lesford			308 Tucker Ex 4792		Rt. 3, Box 191, Rocky Mt., NC
Boone, Jack Norman	JA	ME	1140 Bragaw Ex 15189	TE2-4457	Rt. 3, Box 191, Rocky Mt., NC
Booth, John Robert	SC	ME	289 Alexander Ex 4164		Box 191, Rocky Mt., NC
Booth, John Robert	JA	CEC	2812 Mark Ave.	TE2-4343	1712 Main St., Richmond, VA
Booster, Donald Eugene	SC	CEC	318 Syme Ex 3580	TE2-9222	510 Vandalia Rd., Greensboro, NC
Bordeaux, Arthur Franklin, Jr.	MR	AVC	1332 Walnut Tr.	833-8480	Gen. Del., Ingold, NC
Bordeaux, Steven Kelly	JA	IS	17 Enterprise St.	TE4-6510	Box 77, Ingold, NC
Borger, Charles Richard	FR	ASV	Ex 1559 Stadium		112 Millar St., Waynesville, NC
Borokhina, Maroukheer	SR	IE	Ex 5931	TE2-1626	Iran-Teheran-Bazar-Seray Amir Teheran, Iran
Bost, Lewis Tate	JA	AS	Ex 3113	TE2-9159	Rt. 1, Newton, NC
Bost, James Lynn	SC	IE	F-41 McKimmon Vill.		Main St., Rockwell, NC
Bost, Lloyd Carlton, Jr.	SR	CEC	308 Horne St.	TE2-7050	1756 Maryland Ave., Charlotte, NC
Bost, Michael Brown	JA	MEA	114 Weldon	TE2-9119	534 Bracken St., Sanford, NC
Bostian, Charles William	SR	EE	1224 Bragaw Ex 15404	VAS-5004	1001 Canterbury Rd., Raleigh, NC
Bostrom, King Oscar, Jr.	UN	GS	2514 Clark Ave.	TE2-9148	2514 Kenmore Dr., Raleigh, NC
Bostrom, William Jack	SO	GS	2514 Kenmore Dr.	TE4-8870	2514 Kenmore Dr., Raleigh, NC
Boughan, John Robert	SO	PPT	1620 Hillsboro		West Point, VA
Boukouvalas, Constantinos Spyridon	SR	AED	205 Gold Ex 3217	TE2-9263	Kryfowo, Ioannina, Greece
Bounds, Michael Frederick	FR	ASV	Syme Ex 3549	TE2-9150	Box 1134, Chapel Hill, NC
Bouquet, Victor H.	JA	NE	1339 Baes	832-7966	600 S. High, Lake City, MINN
Bourne, Robert Branch	JA	FOM	2779 Van Dyke	TE3-5052	2729 Van Dyke, Raleigh, NC
Boutwell, Wallace Kenneth, Jr.	MR	AGC	J-11 McKimmon Vill.	832-5721	Rt. 2, Newton, MISS
Bouender, Richard Roy	SC	ME	233 Becton	TE2-9554	Rt. 1, Winston-Salem, NC
Bowers, Billy Dean	SR	CEC	1405 Beaver Dam Rd.	833-6298	Jefferson, NC
Bowers, Charles Edward	SC	TAT	2804 Hillsboro St.	TE2-2654	714 S. 5th, Albemarle, NC
Bowers, Crowell Gattis	FR	ASV	131 Owen Ex 4426	TE2-4115	Rt. 3, Siler City, NC
Bowers, Floyd Eria, Jr.	FR	ME	161 Tucker Ex 4668	TE2-9367	UK-30 Verville, N.C.State,
Bowers, James Douglas, Jr.	SC	MED	UK-30 Verville	VAS-7051	Raleigh, NC
Bowers, James Scott	SR	IEC	1710 Hillsboro St.	TE2-2001	423 Chesterfield Rd., Raleigh, NC
Bowers, Keith Adrian	FR	SE	320 Owen Ex 4535	TE2-9360	1166 Johnson Town Rd., Thomasville, NC
Bowers, Ronald James	FR	EE	1140 Bragaw		1140 Beris Dr., Charlotte 9, NC
Bowles, Billy Bruce	UN	FCM	Rt. 2 Apex	EL4-3905	Rt. 2, Apex, NC
Bowling, Bernard Philip	SO	PPT	301 Alexander	TE2-9249	616 Bon Air Ave., Durham, NC
Bowling, Richard Hausber	MR	EE	2208 Roberts St.		1145 Correll St., Greensboro, NC
Bowman, Leonard Allen	SC	CE	304 Syme		Rt. 3, Box 268, Madison, NC
Bowman, Michael Lee	FR	TO	314 Owen Ex 4529	TE2-4300	Rt. 1, Madison, NC
Bowman, Ralph Farmer	FR	FCM	3310 Pollock Pl.	TE2-3839	1413 6th St. Loop NW, Hickory, NC
Boyce, Joseph Baker, Jr.	SC	ME	308 Fourth Ex 3134	TE2-9159	Box 92, Manteo, NC
Boyce, Elwood Lee	SO	CEC	105 Syme		301 Arizona St., Portsmouth, VA
Boyd, David Thomas	SC	ME	2050 Bragaw		821 E. 7th St., Washington, NC
Boyd, George Venable	SC	ME	114 Weldon Ex 3270	TE2-9119	1306 Chestnut St., Henderson, NC
Boyd, Richard Hartwell, Jr.	SC	ATD	114 Owen Ex 4409	TE2-9437	Rt. 1, Fort Mill, SC
Boyd, Robert Herring	UN	IS	Rt. 7	VAS-9658	Rt. 7, Raleigh, NC
Boyd, Zelbert Earl	SC	EE	228 Bragaw		Box 194, Rose Hill, NC
Boyer, Hugh Johnston	SC	TAT	105 Berry	TE2-9363	310 S. Dyer St., Elizabeth City, NC
Boyette, John Robert	SC	AED	430 Owen Ex 4485	TE2-9410	RFD 1, Trenton, NC
Boyette, Warren Giles	SR	FCM	1126 Bragaw Ex 15280	828-7759	RFD 2, Box 579, Clayton, NC
Boykin, James Oliver	FR	ENG	122 Bagwell Ex 3322	TE4-9219	801 West Hines, Wilson, NC
Boykin, James	SC	CEC	215 Heck St.	TE2-4755	215 Heck St., Raleigh, NC
Boykin, William Washington	SO	EE	103 Owen	TE2-9437	Box 84, Bailey, NC
Bozart, Robert Fulton	SO	EE	1304 Hillsboro St.	834-9886	4304 Ave. D, Brooklyn, NY
Bozeman, Lawrence Pigeon	FR	IA	115 Hawthorne Rd.	928-7790	924 Carr St., Greensboro, NC
Bozert, Agla	JA	UN	2406 Van Dyke Ave.		Box 194, Rose Hill, NC
Bozert, Agla Mehmet	JA	UN	2406 Van Dyke Ave.		Ege Univ., 12 Mik, Turkey
Braam, Robert W.	SC	CEC	710 W. Jones St.		3422 Summit Ave., Greensboro, NC
Brasten, Melvin Ole	JA	EST	N-17 McKimmon Vill.	828-8333	Greenbush, MINN
Brackets, Douglas Arthur	JA	TAT	1710 Hillsboro St.	TE2-2001	Box 5102, Charlotte, NC
Brackets, Jesse Cornelius, Jr.	SR	EE	122 Turlington Ex 4219	TE4-9279	915 Worth St., High Point, NC
Bradburn, Charles Clyde	SO	ME			Rt. 2, Brevard, NC
Bradburn, Robert Thomas	SR	EE	2302 McMullan Cir.	834-4451	2836 Barringer Dr., Charlotte, NC
Bradford, James Wayne	SC	FCM	11 Berry	TE2-9350	111 Forest Hill, Morganton, NC
Bradford, Gannett Lowell	JA	FCM	145 Owen Ex 4437		Rt. 2 Box 113, Lenoir, NC
Bradford, William Edward	JA	ASV	721 Shelley Rd.	TE4-0940	721 Shelley Rd., Raleigh, NC
Bradley, Grayson M.	SC	FCM	Ex 4121	TE2-9257	515 Worth St., Mt. Airy, NC
Bradley, Marcus Spencer	FR	AS	1700 Park Dr.		Box 7, Gerton, NC
Bradley, Raymond Foster	SR	CE	3032 Leonard St.	833-4979	Hobgood, NC
Bradley, Rex Kenneth, Jr.	FR	IS	131 Tucker	TE2-9367	Rt. 2 Elon College, NC
	UN	GS	127 Owen Ex 4422		Rt. 1, Box 54, Fuquay Springs, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Brady, William Harrison	SO	AED	212 Reeton Bx 3746	TE2-9336	Rt. 1 Box 327, Whitakers, NC
Brady, William Harrison	SA	IE	205 Watauga	TE2-9132	20 Gilkey St., Marion, NC
Braden, Albert Earl	CR	LA	324 Avon Dr.	TE4-5430	320 Avon Dr., Raleigh, NC
Bradshaw, Harry Ray	FR	AED	150 Maple Bx 3320	TE4-9219	Rt. 2, Wallace, NC
Bradshaw, Joseph Bennett	FR	ME	336 Syme Bx 3594		Rt. 2, Rose Hill, NC
Bradshaw, Joseph C.	SR	FCM	2064 Pine St.		Rt. 2, Franklin, VA
Bradshaw, Richard Allen, Jr.	CR	CEC	1908 Park Dr.	TE2-5406	128 Confederate Ave., Salisbury, NC
Brady, Leslie Ray, Jr.	CR	FY	2316 Hillsboro St.	TE3-5587	118 E. First St., Newton, NC
Brady, William	FR	FOR	233 Tucker Bx 4701		Star Rt., Carthage, NC
Brake, Henry Louis, III	SR	ABA	2715A Kilgore Ave.	828-3072	168 Cokey Rd. Ext. Rocky Mount, NC
Brake, James E.	FR	CHE	362 Owen Bx 4573	TE4-9300	Rt. 2 Box 10, Rocky Mount, NC
Brake, John Ira	SR	FCM	Box 4203	TE4-9279	Rt. 3, Rocky Mount, NC
Brady, Clifford Bailey, Jr.	FR	CEC	2210 Fairview Rd.	TE3-9037	2210 Fairview Rd., Raleigh, NC
Brane, John Thomas	FR	ARC	164 Tucker Bx 4671	TE2-9388	808 F St., N. Wilkesboro, NC
Branch, William Michael	SO	MEA	204, Turlington Bx 4235		818 Oak St., Mooresville, NC
Brandenberg, Henry David	CO	MEA	125D Bragaw	TE2-7638	305 6th St., Lakewood, NJ
Brandt, Robert Orro, Jr.	FR	ME			Box 26, Acme, NC
Bransford, Robert Anthony, Jr	SR	ME	115D Beechridge		1320 Madison Ave., Greensboro, NC
Brant, Margaret Ruth	FR	EST	2404, Beechridge Rd.	TE2-7791	2404, Beechridge Rd., Raleigh, NC
Brant, Paul Weber	FR	CE	2822 Van Lyke Ave.	828-4354	2404 Beechridge Rd., Raleigh, NC
Brant, Richard Harlan	CO	CH	2404 Beechridge Rd.	832-7791	2404 Beechridge Rd., Raleigh, NC
Brantly, Eugene Paschal	FR	NN	4209 Galax Dr.	TE2-9707	Box 5661, Raleigh, NC
Brantley, John Calvin, III	FR	CEC	1920 St. Mary's	TE2-9957	1920 St. Mary's St., Raleigh, NC
Brantley, Vester Robertson, Jr.	CO	CE	152 Jones-Franklin	TE3-0022	152 Jones-Franklin Rd., Raleigh, NC
Brantley, William Arthur	FR	ME	152 Jones-Franklin	TE3-0022	152 Jones Franklin, Raleigh, NC
Brasfield, Martha Helen	FR	CEC	307 Calvin Rd.	TE2-8146	1100 Johnson St., High Point, NC
Braswell, Frank Donald	FR	CH	Bx 5301	TE2-2480	Rt. 1 Box 103, Theodora, ALA
Braswell, Harold T.	FR	CE	810 Parrott Dr.	TE4-1518	810 Parrott Dr., Raleigh, NC
Braswell, Kenneth George	FR	EE	Box 4749	TE4-9739	319 N. John St., Goldsboro, NC
Braucher, Daniel Samuel					1610 Hammond St., Rocky Mt., NC
Brauer, John William	FR	FY	305 Fourth	TE2-9159	Box 190 Rt. 1, Leesport, PA
Brawley, Clyde Robert	FR	CEC	355 Owen Bx 4566		Rt. 2, Norlina, NC
Brawley, Frank Wendell	FR	CEC	4700 Hillsboro St.		Rt. 3, Mooresville, NC
Brawley, Joel Vincent, Jr.	FR	AMA	2620 Kilgore Ave.	828-6379	Rt. 8 Box 290H, Charlotte, NC
Brawley, Paul Irvin	FR	AGE	133 Owen Bx 4428	832-9115	122 N. Sycamore St., Mooresville, NC
Brawley, Sumter Coe III	FR	EE		TE2-9484	375 W. Stewart Ave., Mooresville, NC
Gray, William Randall	SR	ARC	130 Cox Ave. Apt H		4024 Bristol Rd., Durham, NC
Breenberg, Gladys Ellis	FR	ARC	1007 Carlton Ave.	TE4-5352	810 Franklin, Goldsboro, NC
Breen, James Brooks	FR	LA	203 Groveland Ave.	TE4-3901	1007 Carlton Ave., Raleigh, NC
Breedon, Willie Roy	FR	ME	133 Alexander Bx 4127	TE2-9257	1205 Spruce St., Fayetteville, NC
Brendle, David Jeffrey	FR	ATI	1718 Hillsboro St.	VAR-4464	Rt. 3 Box 368, Elizabeth City, NC
Brennen, David Charles	FR	CRE	60 Tucker	TE2-9237	Box 12, Drexel, NC
Bresler, Robert Ward	FR	ABY	249 Owen Bx 4500	832-9252	922 S. Church St., Asheboro, NC
Brett, John Montgomery	FR	CHE	311 Bagwell	834-9151	Highland Rd., Weaverville, NC
Brewer, James Elwood	FR	AED	Tucker Bx 4795		314 North St., Ahoskie, NC
Brewer, John Howard	FR	EE	Box 638, Cary		Rt. 3 Box 330, Newland, NC
Bricker, Albin Austin, Jr.	CO	CEC	905 Durant St.	VA8-6711	Rt. 1, Biscoe, NC
Brickhouse, George Dallas, Jr.	CO	CE	420D Bragaw, Bx 15403		905 Durant St., Raleigh, NC
	CO	ARC	Rt. 1, Cary		195 S. Utah St., Arlington, VA
Bridger, John Butler	FR	ME			1512 Pryor Ave., Elizabeth City, NC
Bridgers, Benjamin Lee	FR	AGI	200 Brooks Ave.	TE2-4331	300 Main St., Bladenboro, NC
Bridgers, Luther Ernest	FR	CE	206 Syme Bx 3538		Box 73, Pinetops, NC
Bridgers, Robert Ronald	FR	EE	152 Tucker Bx 4659		934 Sycamore St., Rocky Mount, NC
Bridges, Jack Roger	FR	EE	4318 McKimmon Vill.	828-8191	406 E. Main St., Murfreesboro, NC
Bridges, John William III	FR	EE	1710 Hillsboro	TE4-2001	1533 Sunrise Ave., Raleigh, NC
Bridges, Milton Dale	FR	NE	3015 Farrior Rd.	834-5977	423 S. Cambridge, Minty Six, SC
Bridges, Robert Andrew	FR	ME	160 Owen Bx 4451	TE2-9437	3015 Farrior Rd., Raleigh, NC
Briggs, Jerry Ralph	FR	EE	308D Bragaw Bx 15325	TE4-9253	Rt. 2, Lawndale, NC
	FR	ARC	6254 Holden St.	833-2925	Rt. 2, Mars Hill, NC
					12 & G, Lexington, NC
Briggs, Roger Allen	FR	LA	1324 Wansbury Rd.	833-6549	CC-12, Lexington, NC
Bright, Douglas Elliott	FR	AGE	Tucker Bx 4646	TE2-9388	Rt. 5 Box 245, Elizabeth City, NC
Bright, Melvin Cleon	FR	AED	2712 Vanderbilt Ave.	TE2-1952	Rt. 1 Box 214, Chocowinity, NC
Brimley, Theodor King	FR	ME	125 Cox Ave. Apt 9		Rt. 1 Box 62, Whiteville, NC
Brinker, Frank Charles	FR	ME			Rt. 1, Polkton, NC
Brink, Arthur Robert	FR	FF	2514 Clark Ave.	TE2-9148	210L Greenbriar Rd., Kinston, NC
Brinkley, Claude Franklin	FR	IA	10 Enterprise Apt 4		225 S. Main St., Asheboro, NC
Brinkley, Karl Franklin	FR	EE	234 Hillsboro St.	834-3375	111 London Lane, Mt. Airy, NC
Brinkley, Gary Stephen	FR	AED	144 Bragaw Bx 15338		Rt. 1, Box 372, Teachys, NC
	FR	ASE	Bx 4713	TE2-9387	Rt. 5, Mocksville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Brinkley, Jack Willard	FR	CHE	307 Owen Ex 4524	TE4-9300	Rt. 1, Milton, NC
Brintle, Robert Lee	SR	ASR			816 Morreene Dairy Rd., Durham, NC
Brisson, Isaac Henry	FR	CHE	125 Tucker	TE2-9367	2109 Robin Rd., Salisbury, NC
Brite, Thomas Earl	FR	CEC	62 Tucker	TE2-9237	Rt. 2 Box 964, Elizabeth City, NC
Britson, Robert Lura	SO	TKT	2303 Clark Ave.		Homewood Acres, Siler City, NC
Britt, Delmas Gray	SO	TC	406 Warren Ave, Cary	HO7-1401	406 Warren Ave., Cary, NC
Britt, Gordon M.	SR	EE	923 Tower St.		923 Tower St., Raleigh, NC
Britt, Harry Shore, Jr.	SR	ME	beeton Ex 3719	TE2-9256	300 Warsaw Rd., Clinton, NC
Britt, Milton Ray	SO	IA	125 Hawthorne Rd.	TE2-1183	Rt. 1, Goldsboro, NC
Britt, Ramon Paul	SR	EE	2412 Everett Ave.	TE2-6377	819 E. 5th St., Lumberton, NC
Britt, Thomas Oliver	JR	LE	205 Ashe Ave.	TE3-5483	205 Ashe Ave., Raleigh, NC
Britt, Victor Herman, III	SR	MEA	1322 Mayfair Dr.	TE4-1552	1322 Mayfair Dr., Raleigh, NC
Britt, William Moses	FR	IA	6 Stadium Ex 4351		1519 Brooks Ave., Raleigh, NC
Brittain, Robert Earl	SR	CE	2330 Knowles	TE2-4919	400 Hardin St., Boone, NC
Brittingham, James Calvin	JR	NE	220B Brawag		210 Dogwood Lane, Hamlet, NC
Britton, Walter Martin	ME	PSU	J-15 McKannon Vill.	828-5976	Lasker, NC
Brna, Theodore George	DR	ME	2619 Avent Ferry Rd.	834-8644	3202 Walmley Blvd., Richmond, VA
Broadhurst, Edwin Borden, Jr.	JR	MEA	203 Fourth Ex 3121	TE2-4159	612 Hancock St., Smithfield, NC
Broadwell, Donald Graham	FR	RFA	120 Cox Ave.	828-9463	120 Cox Ave., Apt 3, Raleigh, NC
Broadwell, Reuben Grant	SR	ATF			Rt. 2, Raleigh, NC
Brock, Bobby Gene	SR	AED			E. Frey & 2nd, Lillington, NC
Brock, Moody W.	SO	AED		832-9150	Rt. 1, Funnlevel, NC
Brock, Robert Glenn	SO	EE	409C Brawag		114 Dogwood Lane, New Bern, NC
Brock, Stewart Common	JR	IE	1620 Hillsboro St.	834-9378	130 Maple St., Wadsworth, OHIO
Brodie, Benjamin Thorp	JR	EE	340 Owen Ex 4554	TE4-9300	Box 44, Scotland Neck, NC
Brodie, Samuel Lee	FR	ARC	1912 Hadley Rd.	VA8-3936	1912 Hadley Rd., Raleigh, NC
Brogden, Douglas Edwin	FR	NE	Bx 3377	834-9151	Rt. 3 Box 240, Marshall, NC
Brogden, Roy Osborne	SR	FOM	Box 393, Cary	VA8-6616	White Oak Rd., Garner, NC
Brogden, William Alvis	SR	ARC	132 Woodburn Rd.		311 Weatherspoon St., Sanford, NC
Bromby, William Robert	JR	MEA	321 Syme Bx 3585	832-9222	54 Grant Ave., Roselle Pk., NJ
Brockbank, John Bowman II	FR	ME	336 Tucker Bx 4766	TE2-9323	1316 W. 1st St., Winston-Salem, NC
Brooks, Cecil Charlie	GR	AH			7610 Sharon Rd., Tampa, FLA
Brooks, Guy Moody	SO	TKT	105 Chamberlain St.	TE3-1059	Rt. 1 Box 63, Kannapolis, NC
Brooks, George William	MK	AFY	C-25 McKimmon Vill.		1815 Cecelia Ct., Owensboro, KY
Brooks, James Bryan	FR	AED	13 Maiden Lane		Rt. 1, Box 64, Bath, NC
Brooks, John Dale	JR	ATD	Box 272, Cary	VA8-9488	Rt. 1, Box 272, Cary, NC
Brooks, Robert Alfred	JR	FOR		832-9150	Rt. 4, Shelby, NC
Brooks, Samuel Franklin, Jr.	FR	MES	240 Tucker	TE4-9820	4415 Sherman Rd., Richmond, VA
Brooks, Sandy Dexter	SO	EE	62 Tucker	TE2-9237	Box 283, Pembroke, NC
Brooks, William Barr	SO	FOM	216 Alexander	TE4-9746	1222 Windsor Ave., Richmond, VA
Brooks, William Hubert	SO	PD	8 Berry		106 Edgewood Dr., Boone, NC
Brookshire, Curtis Bulla	FR	ME	152 Owen Ex 4443	TE2-9437	Box 515, Randleman, NC
Brookshire, Stanford Raymond	SO	IE	125 Bagwell		900 Huntington Ik, Charlotte, NC
Brooms, Timothy Gayle	FR	ME	105 Tucker Bx 4619	TE2-9367	409 Phifer St., Monroe, NC
Brooms, Lawrence Jacks	JR	EE			Rt. 1, Robbinsville, NC
Brothers, Bryant Jerry	SO	NE	328 Alexander		Rt. 1, Box 48, Elizabeth City, NC
Brothers, Walter Lee	JR	EE	Rt. 1, Cary	HO7-5523	Rt. 1, Cary, NC
Broughton, Ray Briley	SO	ME	309 Turlington Bx 4272	TE2-9192	108 E. Edgewood Dr., Durham, NC
Broughton, Royall Melvin	JR	FPT	Ex 15141		Rt. 2, Wake Forest, NC
Brouillard, Leslie Lorin	FR	FOM	2713 Everett Ave.	TE3-1312	Rich Square, NC
Brower, Lennis Roger	FR	EE	2710 Vangerbilt Ave.	TE4-9447	401 Springfield Rd., High Point, NC
Brown, Ann Carolyn H.	SO	CH	533 Barksdale Dr.	TE2-2158	533 Barksdale Dr., Raleigh, NC
Brown, Carroll Freeman	SR	AMA	326 Bagwell	TE4-4151	402 School Dr., Williamston, NC
Brown, Clon Chandler, Jr.	JR	EE	2426 Hillsboro St.	834-9549	112 Manor Dr., High Point, NC
Brown, Dale Linwood	JR	MEA	220 Syme Bx 3552	TE2-9150	308 Carswell La., Goldsboro, NC
Brown, David Edward	FR	FOR	351 Owen Bx 4562	TE4-9300	Rt. 2 Box 74, Clarkston, NC
Brown, David Gabriel	FR	ARC	117 Alexander Bx 4114	TE2-9257	901 Hedrick Dr., Statesville, NC
Brown, David Stephen	JR	TKT	312 Owen	TE4-9300	1145 Tarboro St., Rocky Mount, NC
Brown, Donald Wayne	SR	ME	17 Glenwood Ave.		Box 125, Robbins, NC
Brown, Earl Mendenhall	SO	ME	232 Tucker Bx 4703	TE4-9828	804 Dover Rd., Greensboro, NC
Brown, Edward Earl, Jr.	FR	ENG	Tucker Bx 4784	TE2-9323	Rt. 1, Jamesville, NC
Brown, Eugene Wilson	SR	ARC	1509 1/2 Hillsboro St.		301 W. Cornwallis Rd., Durham, NC
Brown, Franklin Douglas	SO	ASV	21 Syme Bx 3617	TE2-9421	609 Westmont Dr., Fayetteville, NC
Brown, George Baldwin	JR	EE	330 Owen Bx 4545	834-4836	808 S. Church St., Scotland Neck, N
Brown, Henry Alfred	MK	EE	Box 25, Apex	EL4-3781	Box 25, Apex, NC
Brown, Henry Thomas, Jr.	SO	ATC	2128 Mayview Rd.	TE4-4780	RFD 2, Ahoskie, NC
Brown, Howard Patrick	SO	ARK	6 Berry		1124 N. Bonner St., Washington, NC
Brown, Irvin Willard	SO	ARI	Owen		Rt. 2 Box 74, Clarkston, NC
Brown, Jack Edward	FR	EE		TE2-9421	Box 613, Andrews, NC
Brown, James Glythe	SO	EE	1405 Beaverdam Rd.		206 E. Holly St., Goldsboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Brown, James Dalton	SO	ASC	Bx 3368		Box 433, Robersonville, NC
Brown, James Lawrence	SO	ASZ	2718 Vanderbilt Ave.	TE2-5343	2718 Vanderbilt Ave., Raleigh, NC
Brown, James Russell					Rt. 3, Hartsville, SC
Brown, James Walter	NK	EO	114, Faircloth St.	828-8164	806 The Circle, Lewiston, NY
Brown, James Orva	JR	AMA	125 Bragaw Ex 15046	TE2-9129	967 Straight St., Asheboro, NC
Brown, James William	JR	IE	104 Home St.		104 Home St., Raleigh, NC
Brown, James Theibert	GR	AWB			521 E. Johnston St., Smithfield, NC
Brown, James William	FR	ARC	327 Tucker	TE4-9739	3900 Gosnold Ave., Norfolk, VA
Brown, John Stephen, Jr.	FR	ASZ	2718 Vanderbilt Ave.	TE2-5343	2718 Vanderbilt Ave., Raleigh, NC
Brown, Johnny Milton	SC	ONE	316 S. Boylan Ave.		1429 Winston Rd., Lexington, NC
Brown, Joseph Theodore	FR	ME	167 Tucker Bx 4673	TE2-9388	227 W. Spring St., Elkin, NC
Brown, Laurence Folk	SO	ARC	102 Berry Bx 4302		5201 Franklin Rd., Nashville, TENN
Brown, Marshall Franklin	JR	ARC	2603 Clark Ave.	TE2-2424	311 S. 4th, Carolina Beach, NC
Brown, Michael Ferrell	JR	MEA	455 Grissom St.	TE3-2746	Rt. 2 Box 426, Candler, NC
Brown, Otis Barton	FR	FSY	2820 O'Berry St.	TE3-0219	2820 O'Berry St., Raleigh, NC
Brown, Richard Samuel	SO	A			Rt. 3, Tarboro, NC
Brown, Robert Clifford, Jr.	FR	PPT	208 Syme		Elm St., Carthage, NC
Brown, Robert Halverson	JR	MEA	337 Tucker		Rt. 4 Box 368, Asheville, NC
Brown, Robert Halverson	JR	MEA	110 Turlington Bx 4207	TE4-9279	111 Charleston Ave., Swannanoa, NC
Brown, Robert Halverson	JR	TXT	2602 Van Lyke	TE4-0982	610 Lawrence St., Sanford, NC
Brown, Stephen Hunt	JR	EE	215 Park Ave.	VA8-9665	311 S. Slocumb St., Goldsboro, NC
Brown, Thomas Wayne	JR	PPT	617 Mial St.	832-8189	617 Mial St., Raleigh, NC
Brown, Walter Thomas	JR	TAT	117 Alexander Bx 4114	832-9257	901 Hedrick Dr., Statesville, NC
Brown, Warren Williams	JR	PRA	3414 Hillsboro	VA8-9181	208 W. End Ave., Wilson, NC
Brown, William Charles	FR	AB	210 Tucker Bx 4683	TE2-9387	Rt. 3 Box 316, Henderson, NC
Brown, William J., Jr.	GR	AWA	Stadium Bx 4366		Rt. 2 Box 313, Booneville, NC
Brown, Willie Thomas	GR	AED	3306 Hillsboro St.	833-2672	5302 Raeford Rd., Fayetteville, NC
Browne, William Hand, IV	SC	EE	1301 Hillsboro St.		Rt. 1, Angier, NC
Browning, Hubert Franklin, Jr.	FR	AG	303 Owen Bx 4520	TE4-9300	Rt. 1, Bear Creek, NC
Browning, Kerry Blaine	FR	EE			17 Tauxemont Rd., Alexandria, VA
Browning, Vernon Denton	JR	CHE	1011 Dixie Trail	TE4-6318	1011 Dixie Tr., Raleigh, NC
Browning, Wilmer	JR	AG	206 Becton	TE2-9334	2419 Spanger Rd., Durham, NC
Brownberg, Charles Steven	GR	GN	216 Watauga Bx 3034	TE2-9132	529 Monte Vista, Twin Falls, IDAHO
Brunnmet, Robert Garland	FR	NE	415 S. Boylan Ave.	832-5654	401 Avery St., Waynesville, NC
Brunnhurst, Wayne Charles	FR	ME	202 Ashe Ave.	833-9329	202 Ashe Ave., Raleigh, NC
Brunnhurst, Wayne Charles	SC	CHE	125 Cox Ave.	VA8-2780	5612 Sylvan Ave., NYC, NY
Bryant, John Everett	JR	ATC	Bx 4759		211 Ellington St., Fayetteville, NC
Bryant, John Patrick	JR	APY	211D Bragaw Ex 15072		Rt. 4, Henderson, NC
Bryant, Talister Bernard	SC	CHE	105 Berry Ex 4305		51 Lafayette Ave., Middletown, NY
Bryant, Mac Steve	SC	CHE	314 W. Durham Rd., Cary		314 W. Durham Rd., Cary, NC
Bryant, Richard Dennis	JR	AGI			
Bryson, Frederick Edgar	JR	AGI			
Bryson, Lionel Herbert	JR	EE			
Bryton, James Isaac	JR	CHE		TE2-9219	Box 98, Fremont, NC
Bruwer, William Albin	MA	EE	35 1/2 Dixie Dr.		Box 542, Glen Burnie, MD
Bryan, Benjamin Edward	JR	AED	Bx 3226	TE2-9263	Rt. 1, Box 128, Jacksonville, NC
Bryan, Byron Eugene	FR	AGR	7 Stadium Bx 4352		211 W. Main St., Mt. Olive, NC
Bryan, Frederick Allen, Jr.	JR	APY	Rt. 4	VA8-4025	Rt. 4, Yates Pond Rd., Raleigh, NC
Bryan, Junius Turner	MA	EE	3021 Rothgeb Dr.	832-4093	3021 Rothgeb Dr., Raleigh, NC
Bryan, Robert Leon, Jr.	JR	ANC	1702 Hillsboro St.	832-8406	2000 Greenbrier, Kinston, NC
Bryan, Robert Preston, Jr.	FR	IE	401 Roxanne Dr.	832-4383	401 Roxanne Dr., Raleigh, NC
Bryan, Thomas Grady	JR	TC	232 Tucker	TE2-9387	243 E. Chestnut St., Asheville, NC
Bryan, William Ross	JR	CHE	2512 Clark Ave.	TE2-4843	262 Alpine Dr., Houston 17, TEXAS
Bryant, John Everett	JR	ATC			
Bryant, John Patrick	JR	APY			
Bryant, Talister Bernard	SC	CHE			
Bryant, Mac Steve	SC	CHE			
Bryant, Richard Dennis	JR	AGI			
Bryson, Frederick Edgar	JR	AGI			
Bryson, Lionel Herbert	JR	EE			
Bryson, Philip Robinson	JR	AMA			
Buchanan, Gerald Rae	JR	ME			
Buchanan, John Ralph	JR	MEA			
Buchanan, LeRoy Fred	JR	AWI			
Buchanan, William Tom	JR	CE			
Buckingham, Phillip Lowry	JR	CE			
Buckner, Edward Reap	JR	ME			
Buckner, William Lee	JR	ME			
Buddington, Donald Lee	JR	ME			

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Balford, James Jackson	SA	AGE	bx 4141	TE4-9746	Rt. 1, Willow Springs, NC
Balford, William David	FR	AGE	238 Burlington Ex 4263	TE4-9497	Rt. 1, Willow Springs, NC
Bale, James Cunningham	SR	AGE	1821 Newsum Ave.	TE4-8429	Rt. 7 Pine Brook Est., Winston-Salem, NC
Baldwick, Albin Pafford	SO	EE	606 S. Boylan Ave.		Apple Orchard Hts., Westfield, MASS
Ballard, Douglas Merle	SR	EE			Rt. 3, Wake Forest, NC
Ballard, James Clayton	FR	AGE	124 W. Park St. Cary	H07-4875	124 W. Park St., Cary, NC
Ballou, Charles William	JR	CHS	426A Bragaw Bx 15412	TE4-9364	310 S. Main St., Fairmont, NC
Ballock, Leonard Wayne	SR	SED	730 Powell Dr.	W42-5406	Rt. 4, Zebulon, NC
Bamgarner, Harvey Lindy	AU	A	2016C Smallwood Dr.	V48-9768	2016C Smallwood Dr., Raleigh, NC
Bamgarner, Larry Tyson	JR	EE	206C Bragaw		Box 225, Stanley, NC
Bamgarner, Billy Rex	FR	TAT	15 Maiden Lane		Rt. 1 Box 300, Millers Creek, NC
Bamgarner, Bobby Rex	FR	TC	15 Maiden Lane		Rt. 1 Box 300, Millers Creek, NC
Bamgarner, Charles Ryan	SO	EE	Bx 15378		203 Woodland Blvd., Wilkesboro, NC
Bamgarner, Connie Eulalia	FR	ASV	210 Groveland Ave.	832-5021	Rt. 4 Box 842, Morganton, NC
Bamgarner, John Stephen	FR	EE	4542 Owen	TE4-9300	601 E. Chestnut St., Stanley, NC
Bamgarner, Thomas Stanley	SO	ME	318 Alexander Bx 4181	TE2-9349	Rt. 4 Box 259, Taylorsville, NC
Bunch, William Melvin	SO	F	203 Burlington	TE2-9297	705 Flora St., Elizabeth City, NC
Bundy, Theda Tucker	FR	ARC	1814 Park Dr.	TE3-0874	Empire Hotel, Salisbury, NC
Bunn, Currie Lamar	SO	ARC	309 Welch Ex 3269		2806 Wayland Dr., Raleigh, NC
Bunting, Doug Lewis	JR	AGI	286A Tryon Rd.		Box 334, Pinetops, NC
Bunting, Phillip Marshall	FR	MTE	1-13 MSH	V48-8664	715 Elwell Ave., Greensboro, NC
Burbank, Walter Swift	FR	TAT	Bx 4523	TE4-9300	Rt. 3 Burrage Rd., Concord, NC
Burch, David Carroll	FR	A	Owen Ex 4594	832-9142	Rt. 1, Faison, NC
Burch, Stephen Thomas	SO	ME	426A Bragaw Bx 15408		Stovall, NC
Burda, Raymond John	FR	ME			3203 Cymwood Cr., McKeesport, PA
Burden, James Roscoe	SR	FOH	2415 Fairview Rd.	833-3589	Box 74, Aulander, NC
Burgess, Lucy White			605-D Daniels	V48-2990	605-D Daniels St., Raleigh, NC
Burgess, Robert Eugene	NR	MTE	-205 McKimmon Vill.	TE2-1875	55 New York Ave., Dumont, NJ
Burgess, Thomas Rudolph	SO	AEL	139 Tucker Bx 4649	TE2-9388	Rt. 1, Ramseur, NC
Burgess, William James	JR	TAT	3005 Leonard St.	TE2-7375	Staley, NC
Burgin, Fred Lovelace, Jr.	SC	TMT	338 Alexander Bx 4198		Rt. 3 Box 5, Forest City, NC
Burke, Robert Holmes	SR	FOH	123 Brooks Ave.		11 Bellegrove Dr., Montclair, NJ
Burke, Thomas Allen	FR	MBA	324, Becton Bx 3792	TE2-9372	4825 Morris Field Dr., Charlotte, NC
Burkett, Jerome Phillip	FR	EE	1304 Hillsboro St.		714 W. Orient St., Tampa, FLA
Burkhalter, Thomas Dean	GR	CS	2718 Wayland Dr.	828-8179	2718 Wayland Dr., Raleigh, NC
Burks, Tommy Richard	SO	PFT	410A Bragaw Bx 15379		117 E. Parrish St., Covington, VA
Burleson, Cecil Alan	SC	A	2705 Vanderbilt		Rt. 4, Albemarle, NC
Burleson, Larry Joe	JR	TAT	970 Wilmington Ter		970 Wilmington Ter., Raleigh, NC
Burnet, Duncan McGowan	SC	TAT	214 Owen		1004 Cormallis, Greensboro, NC
Burnette, James Otis	SC	AED	220 Tucker Bx 4691		Rt. 2 Box 56, Oxford, NC
Burnette, Thurman Everett	SR	AEL			Rt. 2 Box 357, Oxford, NC
Burnette, William Matthew	SO	CE	1710 Hillsboro St.	TE4-2001	808 Jackson St., Roanoke Rapids, NC
Burns, Barry Eugene	JR	ME	311C Bragaw Bx 15122	TE4-9179	Rt. 1, Pittsboro, NC
Burns, Harry Addison, Jr.	JR	OL	3821 Western Blvd.	832-8732	3821 Western Blvd., Raleigh, NC
Burns, James Tilden	SR	ME	1007 Greenwich St.	V48-2730	1007 Greenwich St., Raleigh, NC
Burns, William Samuel	SO	TAT	2601 Clark Ave.	TE2-8631	Rt. 3 Union Rd., Gastonia, NC
Burns, William Tellis	JR	FMH	Bx 342	TE2-9131	Box 206, Drexel, NC
Burnside, Edward Blair	GR	ANS	N-25 McKimmon Vill.	828-6138	N-25 McKimmon Vill., Raleigh, NC
Burr, Clyde Virgil, Jr.	SO	GE	1702 Hillsboro St.	832-8906	200 Florida Ave., Morehead C., NC
Burrage, Robert Ernest	SC	ARM	1080 Bragaw Bx 15226	832-9180	46 Eastcliff Dr., Concord, NC
Burton, Ann Eggleston	UN	AG	Rt. 1, Cary	TE2-5265	Rt. 1, Cary, NC
Burton, Charles David	JR	IATO	Rt. 1, Cary	TE2-5265	Rt. 1, Cary, NC
Burton, Hugh Abbott	SO	ARC	1204 Groveland Ave.	TE3-3369	411 Bordeaux St., Jacksonville, NC
Burton, William Alonzo	JR	NE	221 Bagwell	TE2-4151	3438 Potomac St., Winston-Salem, NC
Burwell, Danny Edward	SC	EE	1111 Nichols Dr.	V48-8859	2136 Haymount St., Winston-Salem, NC
Burwell, George Allen, Jr.	SO	PE	309 Welch Ex 3269	TE2-9119	6004 Dinneen Dr., McLean, VA
Bush, Harold Gene	MR	EM			Rt. 1 Box 62, New London, NC
Butler, Duane Ferrell	FR	ME	137 Tucker Bx 4647	TE2-9388	442 Beth Ave., Winston-Salem, NC
Butler, Edward Robert	JR	ME	2426 Hillsboro	TE2-9859	304 Roberson St., Rockingham, NC
Butler, James Llewellyn			Bx 564, Cary	407-9447	Box 564, Cary, NC
Butler, John Daniel	FR	DEC	Bx 4344		Ridgeview Rd., Southern Pines, NC
Butler, Kenneth Lee	SC	EE	1009 Gardner St.		Rt. 1 Box 216, McLeansville, NC
Butler, Ronald Sidney	SC	CE	226 Becton Bx 3760	TE2-9334	Box 441, Forest City, NC
Butler, Thomas Alva	JR	PFT	1508 Frank St.		Rt. 7 Taylor Dr., Macon, GA
Butler, William Keeler	FR	GS	124 Bagwell		Rt. 7, Box 178, Fayetteville, NC
Butler, William Murray	FR	GS	Bx 3591	832-9212	Box 278, Roseboro, NC
Button, Bryan Lawrence	JR	NE	Burlington Reactor		42 Beechwood Ave., Staffordshire, England
Butts, James Thomas, Jr.		NE	307 Berry Bx 4327		Rt. 2 Box 6, Elm City, NC
Butts, John Edward	FR	TAT	104, Becton Bx 3704	TE2-9256	Rt. 1 Box 274, Laurinburg, NC
Buzzard, Gale Herbert II	FR	ME			4813 Brentwood Rd., Durham, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
		EE	Bx 4365		112 Woodside La., Liverpool, NY
	NR	ARC	121 Syme Bx 3521	832-9288	201 Forest Rd., Oxford, NC
	NR	CHE	346 Wilmet Dr.	828-5520	346 Wilmet Dr., Raleigh, NC
	NR	AM	1410 Hillsboro St.		Rt. 1, Iron Station, NC
Bynum, John Alex, Jr.	JR	TAT	1150 Bragaw Bx 15230		Box 242, Wadesboro, NC
	NR	ARC	Bx 3785		Rt. 2, Windsor, NC
Byrd, Bruce Weldon	NR	A	4171 McMonn. Vill.	TE4-4061	Rt. 1, Hartsville, SC
	NR	JE	338 Bagwell	834-9151	Box 26, Bunnlevel, NC
	NR	A	308 Home St.		Rt. 1, Orrum, NC
Byrd, Everett Wade, Jr.	NR	A	124 Tucker Bx 4635	TE2-9388	Box 605, Clarkton, NC
					Rt. 1, Ramseur, NC
Byrd, Granville Creighton, Jr.	NR	LE	Lake Wheeler Mobile Estates		Lake Wheeler Mobile Estates, RFD 4, Raleigh, NC
	NR	AM	315 katauga	TE2-9132	Rt. 1, Smithfield, NC
Hebron Franklin	NR	NSA	108 Bagwell Bx 3308		Rt. 1 Box 166, Angier, NC
	NR	NR	221 Bagwell Bx 3353	TE2-9132	at 1, Sims, NC
Byrd, Larry Barwin	NR	NR	Box 15045		St. 1, Norwood, NC
	JR	ASA	2718 Clark Ave.	TE2-6451	Rt. 3, Burlington, NC
	JR	TAT	104B Bragaw Bx 15216	832-9180	Box 26, Bunnlevel, NC
	NR	WT	1816 Park Dr.	TE2-8075	Rt. 2, Kodak, TENN
Byrd, Woodson Vaughan	NR	ARC	502 Cutler St.	VAB-9561	502 Cutler St., Raleigh, NC
					520 Cokey Rd., Rocky Mount, NC
Byrne, Matthew Love	NR	NE	215 Bagwell		C.B./8 Dalmianagar, Bihar, India
Changa, Krishna Kumar	NR	CE	Bx 5779		3451 Redbud La., Raleigh, NC
	NR	ED	3451 Redbud La.	834-8773	1020 W. South St., Raleigh, NC
Hireline, Janice McLean	NR	FSM	1020 W. South St.	TE3-8033	Montevideo 1081-310, Lima, Peru
Caballero, Manuel Wilfredo	NR	EST	12-B Daisy St.		Ave. 2da Deste 4-68, Cali - Colombia, S.A.
Watrera, Octavio	NR	AGI	363 Owen		606 Gardner St., Raleigh, NC.
	JR	CE	606 Gardner St.	828-9859	1003 Michigan, Kannapolis, NC
Cagle, Donald Ray	NR	MEA	Box 130, Cary		305 Palaside Dr., Concord, NC
Cagle, Virginia Ann	NR	ARC	1313 Hillsboro St.	TE2-2663	Swan Quarter, NC
	NR	CE	26 Syme		
					Rt. 2 Box 584, Greensboro, NC
Cain, Arthur Eugene	NR	ARC	309 Gold Bx 3233		Box 45, Wallace, NC
Cain, Marshall Benton	NR	IE	2226 Hillsboro St.	TE2-2584	Box 51, Kenansville, NC
	NR	ME	65 Tucker Bx 4815	TE2-9237	2111 Sagamore Rd., Charlotte 9, NC
Caldwell, Daniel Lee	NR	ME	308 Horne St.	TE3-6697	1702 Aberdeen Rd., Baltimore, MD
Caldwell, Ernest LaRue	JR	ARC	208 Welch	TE2-9119	Box 127, Clyde, NC
Caldwell, James Daniel	NR	FOH	7 Rosemary	828-8018	213 Irbywood Dr., High Point, NC
Caldwell, James Hord, Jr.	NR	EE	1739 Hillsboro St.	TE3-6901	2318 Rama Rd., Charlotte, NC
	JR	TC	202 Welch Bx 3250	TE2-9119	Rt. 3, Burlington, NC
Cale, David Ben	NR	MEA	315D Bragaw Bx 15132	TE4-9179	514 Boyd Ave., Waynesville, NC
	NR	FOM	4014 Boylan Ave.		
					Box 252 Rt. 1, Laurinburg, NC
Calhoun, Leon Conway	NR	AE	138 Tucker Bx 4648	TE2-9388	Rt. 4 Box 350, Rocky Mount, NC
Calhoun, Ronnie Ellsworth	JR	AE	2004 Tryon Rd.		129 York-Union, Gastonia, NC
Callaghan, James Michael	JR	ME	111 Park Ave. Apt 5		134 Merriam, Walla Walla, WASH
Callahan, Fred Lonnie, Sr.	NR	EE	1304 Hillsboro	834-9886	610 Caroleen Rd., Forest City, NC
Callahan, William Sanford	JR	CEC	207 Furches St.	TE2-2178	3412 Plymouth Pl., Lynchburg, VA
	NR	PFT	119 Tucker	TE2-9367	Rt. 5, Asheboro, NC
Callicutt, Joseph Hugh	JR	CE	2713 Vanderbilt Ave.		Box 734, Asheboro, NC
	NR	IA	181 Horne St.	TE2-6164	1346 Watauga St., Kingsport, TENN
	NR	ARC	1410 Hillsboro	TE2-9484	266 Wayah St., Franklin, NC
	JR	EE	16 Enterprise St.		
					Box 312, Highlands, NC
Calloway, James Lyle	JR	PFT	Eragaw Bx 15269		3205 Clark Ave., Raleigh, NC
Calton, Phillip Byron	NR	EE	3205 Clark Ave.	TE4-7839	Rt. 3 Box 270, Mt. Vernon, IND
Calvert, Wallace V.	NR	ARC	O Logan Ct.	834-2842	Granja Agricola, Palmira, Valle Colombia
Camacho, Luis Humberto	NR	NR	29 Enterprise St.	TE4-6170	312 Missouri St., Spindale, NC
					Rt. 1, Box 116, Cameron, NC
Camy, Steve Lewis	NR	ME	103B Bragaw Bx 15006	TE2-9129	at. 1 Box 158, Cameron, NC
Cameron, Charles Douglas	NR	MEA	311D Bragaw Bx 15123		RFD 2 Box 71, Cameron, NC
Cameron, Neil Clarence	NR	AGI	Alexander Bx 4169		3812 Noremec Dr., Raleigh, NC
Cameron, Walter Auory	NR	AE	237 Owen Bx 4491	832-9252	Rt. 4, Raleigh, NC
Cameron, William John	NR	CEC	3812 Noremec Dr.	TE3-3447	
Campbell, Carlton Lee, Jr.	NR	ME	Rt. 4, Raleigh	VAB-4250	
					47 McRae Dr., Fayetteville, NC
Campbell, Frederick Bailey	NR	AE	309 Watauga		1216 Franklin Rd., Raleigh, NC
Campbell, George Henderson, Jr.	NR	ME	1216 Franklin Rd.	833-8015	223 Vance, Laurinburg, NC
	JR	TR	8-22 McKimmon Vill.	TE4-3174	Box 691, Whiteville, NC
Campbell, Malcolm Luther	NR	NR	2209 Hope St.		303 Courtland St., Spindale, NC
Campbell, Ronnie Marion	NR	ME	219 Alexander	TE4-9746	818 Hillcrest, Gastonia, NC
Campbell, Stephen Eldridge	NR	NR	524A Bragaw		1801 Bedford Rd., Rocky Mount, NC
Campbell, William Riram	NR	NR	205 Syme Bx 3538	832-9150	Wd. Trailer Haven, Rt. 1, Cary, NC
Campbell, William Purcell	NR	NR	Wd. Trailer Haven	H07-2803	920 Paramount Cir., Gastonia, NC
Campbell, Yates Walter	NR	NR	200 Brooks Ave.	TE2-4331	Box 33, Forest, VA
Camper, Nyal Dwight	NR	NR	3005 Leonard St.	828-6684	

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Camper, Thomas Blake			Brooks St.		Linlier, Virginia Beach, VA
Canaday, Kathleen	FR	EE	2611 Wade Ave.	TE3-7025	2611 Wade Ave., Raleigh, NC
Canaday, Kenneth Sink	JR	ME	2011 Berry	TE2-9363	301 Montlieu, High Point, NC
Canaday, Maurice Franklin	SO	CEC	105 Montgomery St.	838-6160	105 Montgomery St., Raleigh, NC
Cannon, John Wilbur	SO	ME	2409 Clark Ave.	833-9538	106 Noland St., Falls Church, VA
Cannon, Robert Maurice	FR	MAA	340 Tucker Ex 4770		3063 Timberlane Ave., Roanoke, VA
Cannon, Noel Lynn	FR	A	222 Alexander Bx 4151	TE4-9746	Powell Dr., Valdesa, NC
Cannon, William Harvey	SO	AEU	202 Syme, Ex 3534	TE2-9150	Rt. 2 Box 344, Ayden, NC
Cannon, William Lewis	SO	ME	1710 Hillsboro	TE4-2001	Overbrook Dr., Greensboro, NC
Canter, Richard Kenneth	JR	MM	423 Forest Rd.	828-7922	North Wilkesboro, NC
Canterbury, Jack	LN	ME	2112 Pelham Rd.	832-6267	2112 Pelham Rd., Raleigh, NC
Cantrell, Albert Gwynne	SO	MLA	2410 Bragaw Bx 15052	TE2-9185	241 Midland Dr., Asheville, NC
Capalbo, Anthony Bruce	FR	REC	334 Turlington		1613 S. 51st Ct., Cicero, ILL
Capel, Richard Embley	JR	AGC	707 Harris St.	TE4-3303	707 Harris St., Raleigh, NC
Capps, Jesse Louis	FR	FSY	219 Syme Ex 3551	832-9150	609 Sedgfield Dr., Newport News, VA
Capps, Thomas Herbert	SO	EE	203 Watauga		701 Rose St., Rocky Mount, NC
Capetaff, Arthur Erikson, Jr.	FR	CHE	303 Owen Bx 4522	TE4-9300	7108 Belvedere Dr., Newport News, VA
Carawan, George Ellis	SO	EE	303 N. Boylan Ave.	833-9446	712 W. Main St., Belhaven, NC
Carawan, Larry Bryan	SR	CHE	1414 Bragaw Ex 15001		136 Arlington Dr., Wilmington, NC
Carawan, Roy Eugene	SO	CHE	2513 Clark Ave. Ex 5656		1402 E. 10th St., Greenville, NC
Card, Jones Cromwell	JR	ME	405 N. Boylan Ave.	TE2-4922	405 N. Boylan Ave., Raleigh, NC
Cardenas, Raul	JR	CE	A-11 MBE		Wilson 470, Quito, Ecuador, SA
Carey, John Francis	JR	WT	4100 Bragaw		3713 Pelham Lane, Charlotte 7, NC
Carey, Joseph Patrick	FR	EE	Tucker	TE2-9387	117 Jefferson Rd., Farmingdale, NY
Carley, Charles Team, Jr.	JR	ME	3308 Aventura Ferry Rd.	828-5998	3308 Aventura Ferry Rd., Raleigh, NC
Carliele, Arthur Wallace	MR	ME	616 Chappell Dr.	832-4753	616 Chappell Dr., Raleigh, NC
Carmichael, Floyd Willard	FR	ME	203 Berry	TE2-9363	416 Landis Hts., Oxford, NC
Carnes, Kenneth Allen			335 Turlington		25 Second St., Cramerton, NC
Carnes, Robert Mark	SO	AEU	3821 Western Blvd.		701 Park Lane, Laurinburg, NC
Carnes, Albert	JR	NE	2446 Wade Ave.	828-3029	2446 Wade Ave., Raleigh, NC
Carson, William Thomas	FR	FY	113 Bagwell	TE4-9219	Foplar Branch, NC
Carpenter, Carlel Edward					Rt. 5 Box 364, Durham, NC
Carpenter, Eugene Roy	JR	ME	115 Hawthorne Rd.	VA8-7790	3620 Park Rd., Charlotte 9, NC
Carpenter, Joseph Morgan	SR	ATL	2718 Clark Ave.	TE2-6451	Wagram, NC
Carpenter, William Calvin	GR	CE	2822 Van Dyke	828-4354	Box 637 Rt. 5, Hickory, NC
Carper, James Thurman	SO	CEC	2117 Cowper Dr.	TE2-7091	2117 Cowper Dr., Raleigh, NC
Carr, Freddie Kay	JR	ASV	215 Woodburn Rd.	TE2-6159	RFD 3, Clinton, NC
Carr, John Wainwright	JR	AMA	2514 Clark Ave.	TE2-9148	12 Bull Mtn. Rd., Asheville, NC
Carr, Theodore R., Jr.	SR	EST	1302 Branch St.		1302 Branch St., Raleigh, NC
Carr, Thomas McLean, Jr.	SR	ME	120A Bragaw Bx 15243	TE2-9180	113 Warsaw Rd., Clinton, NC
Carr, William Lee	UN		2212 Hope St.	TE2-9472	RFD 2 Box 258, Clinton, NC
Carraway, Charles Edward	FR	EE	Ex 4539	TE4-9300	Rt. 1 Box 79, Havelock, NC
Carrice, Albert Heath III	FR	LA	288 Groveland Ave.	TE2-1619	1035 Guilford Rd., Charlotte 9, NC
Carriker, Richard Wilson	SR	ME	2918 Sherman Ave.	833-5111	3918 Sherman Ave., Raleigh, NC
Carriker, William R.	SR	EE	130 Woodburn Rd.		1815 Logie Ave., Charlotte, NC
Carriker, William Woodroe	FR	ASE	Box 4601, Tucker	TE2-9323	Harrisburg, NC
Carroll, Adger Bowman	FR	AGC	2335 Grant Ave.	828-8193	2335 Grant Ave., Raleigh, NC
Carroll, Edgar Morris, Jr.	SR	FE	2405 Clark Ave.	TE2-6543	2805 Kimball Terr., Norfolk, VA
Carroll, Jerry Lee	FR	CE	Owen Ex 4445		Rt. 3, Benson, NC
Carroll, Royce Edward	FR	EE	Owen Boom 49	832-9142	304 E. Russell St., Fayetteville, NC
Carroll, William B.	JR	ME	5 Dille Tr.	832-4061	336 Ridgewood Ave., Charlotte 9, NC
Carrouth, Steve Wayne	FR	TAT	326 Syme Bx 3590	832-9222	Box 308, Henrietta, NC
Carson, John Pressly	SO	ME	328 Alexander	TE2-9349	921 Blvd., Statesville, NC
Carson, Norman Eugene, Jr.	FR	FOR	22 Becton Bx 3823	TE2-9261	Box 612, Bethel, NC
Carsten, Christopher Gadsden	SO	A	Syme Bx 3601	TE2-9421	Hambling Acres, Cades, SC
Carter, Alex Lewis	FR	ARC	1720 Hillsboro St.		Rt. 8 Kingsport, TENN
Carter, Berkeley Roger	JR	EE	317 Woodmen Hall	832-6117	30 Circle Dr., Reidsville, NC
Carter, David Edward	SO	CE	217 Turlington	TE2-9192	628 Thomas Rd., Lynchburg, VA
Carter, David Huber	JR	ARC	202 Groveland Ave.		202 Groveland Ave., Raleigh, NC
Carter, Donald Bainbridge	MR	APY	2228 Park Ave.		Rt. 5, Fayetteville, NC
Carter, Earl War	FR	FY	2115 Ridge Rd.	TE3-2892	2115 Ridge Rd., Raleigh, NC
Carter, Harry James	AG	TAT	2002 Clark Ave.	TE2-9489	309 Sunset Dr., Greensboro, NC
Carter, John William	FR	ASR	Box 1 Box 386	TE4-8759	Rt. 1, Box 286, Eden, NC
Carter, Joseph Bailey			10 Scott Hall		Rt. 1 Box 386, Eden Forest, Raleigh, NC
Carter, Marvin Ernest	SO	CEC	319A Bragaw Bx 15137		809 Grace Ave., Annapolis, NC
Carter, Richard Jasper			5414 Center	TE2-7552	5414 Center, Raleigh, NC
Carter, Robert Austin	JR	EE	1709 Hillsboro	TE3-6901	314 E. Farris, High Point, NC
Carter, Stanford Lee	JR	ME			2203 Veasley St., Greensboro, NC
Carter, Thomas Kearns			Box Tucker Bx 4810	TE2-9237	1715 S. Fayetteville St., Asheville, NC
Carter, Tony Tyrone	JR	ME	105 Becton	TE4-9244	401 N. 21st St., Wilmington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Carter, William Abner, Jr.	JA	CE	10 Enterprise	TE4-8892	2101 S. Fayetteville, Asheboro, NC
Cartledge, John David, Jr.	JR	IL	212 Berry Ex 4319	TE2-9363	306 Christenbury Rd., Charlotte, NC
Cartwright, William Robert	SA	IL	112 Alexander Bx 4109		Rt. 3 Box 484, Elizabeth City, NC
Carver, Glenn Douglas	JR	LE	115 Hawthorne Md.		109 Hillside Dr., Swepsonville, NC
Carver, Joe Dallas	FR	AGI	Bx 3038		Rt. 1, Roxboro, NC
Carver, Lamar Earl	FR	FOR	250 Tucker		Rt. 1, Robbinsville, NC
Carver, Ronald Vernon	FR	MEA	3527 Baugh St.	TE4-6327	3527 Baugh St., Raleigh, NC
Carver, William Bayard	SK	MEB	202D Bragaw Bx 15262	TE4-9123	1220 Oxford Rd., Roxboro, NC
Case, Wayne Greer	SK	CHE	608 E. Whitaker Mill		301 S. 3rd Ave., Mayodan, NC
Casper, Don Wealon	SR	ABA	2369 McMullen Cir.	834-5642	2369 McMullen Cir., Raleigh, NC
Cassady, Charles Geoffrey	MR	EE	628 Ralph Dr.	828-0441	628 Ralph Dr., Raleigh, NC
Cassanova, Robert Anthony	JR	MEA	302D Bragaw Bx 15313	TE4-4545	5433 Wedgewood Dr., Charlotte, NC
Cassidy, Joseph Gerard	JA	CN	1109 New Bern Ave.		1109 New Bern Ave., Raleigh, NC
Castillo, Jaime	MR	GN	2825 Barmettler St.		Calle 30A #8221, Medellin, Colombia, South America
Gates, James Walter	JR	ABA	Bx 15336		Rt. 2, Hurdle Mills, NC
Gates, Randy Lee	FR	ME	Bx 4412	832-9437	Rt. 6, Burlington, NC
Catherwood, George Arthur	SK	MEA	1909 Clark Ave.		2814 Armfield Ave., Burlington, NC
Cathy, Joseph Turner	FR	JE	Tucker Bx 4808		53, Waynesville, NC
Cato, Joseph Charles	JR	CE	212 Park Ave.		810 Lamar Ave., Charlotte 4, NC
Cato, Robert Lee	SC	CE	1710 Hillsboro St.	TE4-2001	3501 Conway Ave., Charlotte, NC
Cato, Russel Littleton	JR	CRE	E-11 McKimmon Vill.	832-1276	122 W. End Blvd., Emporia, VA
Cattaneo, Leroy Thomas	CG	ARC	101 Welch		654 Marion Rd., Toms River, NJ
Caudle, Marshall Edward	SO	ARC	Bx 3769	TE2-9372	2538 Arnold Dr., Charlotte, NC
Caudill, William Kiley	FR	A	303 Tucker Bx 4736	TE2-9323	4020 1st Pl. S.W. Washington, DC
Caudle, Johnny Allen	SR	ASZ	1536 Carr St.	TE2-3554	106 Hillside Lane, Lenoir, NC
Caudle, William Ashley	JR	AGT	59 Tucker Bx 4809		Peachland, NC
Caulley, William Bryant	JA	CEC	309D Bragaw Bx 15119		Rt. 5, Kinston, NC
Causey, Jerry Lassiter			2174 Bragaw		Rt. 1, Grifton, NC
Causey, Thomas Anderson	FR	ME	355 Owen Bx 4566		Rt. 10 Box 142, Greensboro, NC
Caviness, Edwin Gene	FR	ME	2701 Kilgore Ave.	828-2129	Rt. 1, Ramseur, NC
Caviness, Joseph Whitehurst	JR	NE	310C Bragaw Bx 15328		210 W. John St., Mt. Olive, NC
Cebe, Jerry Manley	FR	PL	3414 Hillsboro St.	828-9181	1802 Maryland Ave., Durham, NC
Cebeci, Tuncer	BR	MF	317 Calvin Rd.		317 Calvin Rd., Raleigh, NC
Cecil, Jerry McLain	SC	ME	315 Turlington		Rt. 2 Box 382A, High Point, NC
Cervený, Philip Breckenridge	SC	EE	337 Alexander Bx 4197	TE2-9349	2289 N. St. James Pkwy., Cleveland Heights 6, OHIO
Chadha, Om Perkash	MR	IE	Dept. of IE		174 Prem Puri, Railway Road, Meerut, U.P. India
Chamberlin, Howard Allen	MR	TC	4105 Rowan St.	TE3-7988	4105 Rowan St., Raleigh, NC
Chamberlin, Inogene Coriell	JK	RPA	4105 Rowan St.	833-7988	4105 Rowan St., Raleigh, NC
Chambers, Charles Frank	SR	JE	919 Culpepper Ln.	TE4-4646	303 E. "E" St., Kannapolis, NC
Chambers, Johnnie William	FR	AGI	16 Sta. Bx 4361		Rt. 4, Roxboro, NC
Chan, Irene Chai-man	MR	AMA	1300 Cox Ave.		1300 Cox Ave., Raleigh, NC
Chandler, James Lawson, Jr.	JK	POM	C-26 MSH	832-1422	Box 36, Ruffin, NC
Chandler, Lawrence Ruffy, Jr.	JK	NYT	318D Bragaw Bx 15346	TE4-9253	1406 Drumlcliffe Rd., Winston-Salem, NC
Chandler, Robert Linden, III	FR	GS	310 Owen Bx 4527	TE4-9300	351 Roberts, Salisbury, NC
Chandler, Ronald Jestal	FR	ATA	317 Alexander Bx 4180	TE2-9349	Rt. 1, Mt. Gilead, NC
Chaney, Edward Stewart	SO	Ch	2833 Barmettler	TE3-0636	Harwood, MD
Chandley, William George	SO	FOR	265 Owen Bx 4507	TE2-9252	5020 S. 11th St., Arlington, VA
Chang, Albert Ho-Yim	FR	TXT	262A Kilgore Ave.	TE4-3736	19 Tat Chee Ave., Kowloon, Hong Kong
Chang, Ho-Eng		ARC	126 Syme		7 Washington St., Wickford, RI
Chang, Wei Kim	FR	FOR	26 Sc. of Forestry		4 In Sue St., Taipei, Taiwan
Chang, Yoon Young	DR	SC	P-304 MSH		1-28 Pukahyun-dong, Seoul, Korea
Chao, Betty Yu-Hua			Dept. of Psychology		N.C.State College, Raleigh, NC
Chapman, Billy Joe	SO	AED	Box 341A, Cary	HO7-1480	Rt. 1, Cary, NC
Chapman, Charles Albert	SO	AMA	706 Aycock St.	TE3-1381	706 W. Aycock St., Raleigh, NC
Chapman, George Wilkes, Jr.	FR	POM	335 Owen Bx 4549		5747 N. 18 St., Arlington, VA
Chappell, Clifton Gill	SO	Ch	413B Bragaw		3138 Sunset Dr., Charlotte, NC
Chappell, Robert Ward	JR	FF	2613 Van Dyke Ave.		2613 Van Dyke Ave., Raleigh, NC
	FR	LE	307 Whitaker Mill	TE2-7063	307 W. Whitaker Mill Rd., Raleigh, NC
Chappell, Theodore Judson	SO	CE	209 Ld. Ashley Rd.	TE2-3028	209 W. Lord Ashley Rd., Raleigh, NC
Chappell, Vernon Glenn	SO	ABA	1547 Bragaw Bx 15215	TE2-9180	Box 486, Rich Square, NC
Cherin, Alan K.	SO	ARC	304 E. Park Dr.	TE2-7638	11 Speir Dr., S. Orange, NJ
Charles, Michael Paul	MR	MEY	1422 Scales St.	834-3065	1422 Scales St., Raleigh, NC
Charles, Robert John	FR	ME	911 Gardner St.	TE4-1086	5835 S.W. 87th Ave., Miami, FLA
Chartier, Robert Lester	MR	ARC	237 Alexander Bx 4163	TE4-9746	Rt. 6, Shelby, NC
Chase, Gerald Richard	JR	Ch	2442 Wade Ave.		2442 Wade Ave., Raleigh, NC
Chase, Philander Dean	SO	Ch	4509 Pamlico Dr.	828-7755	4509 Pamlico Dr., Raleigh, NC
Chavasse, Nicholas Horace	JA	MEB	139 Tucker Bx 4509		41-B Tyndall Pl., Langley A.F.B., VA
Cheatham, James Sherwood	FR	ME	9 Stadium		Rt. 3, Oxford, NC
Cheatham, John Gordon	FR	MR	E-26 McKimmon Vill.	TE2-1944	E-26 McKimmon Vill., Raleigh, NC
Cherry, Frank Lee, Jr.	FR	ARC	1402 College Rd.	834-0684	1402 College Rd., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Cherry, James Earl	FR	ME	1301 Hillsboro St.		Rt. 3 Box 154, Williamston, NC
Cherry, Joseph Eugene	SO	GS	120 Alexander	TE2-9257	1415 Gay St., Rocky Mt., NC
Cherry, Richard Harris	SR	EE	25 bagwell bx 3347	TE2-4131	Rt. 2, Williamston, NC
Chealey, Everett Pleasant	FR	EE	317 Syme bx 3581	832-9222	22 Bear Creek Rd., Asheville, NC
Chestnutt, Robert Spencer	FR	FOR	331 Tucker bx 4762	TE2-9323	Box 428, Mathews, VA
Chew, Robert Lee III	JR	EE	2405 Clark Ave.	TE2-6543	923 S. Hawthorne, Winston-Salem, NC
Chiang, Hunter Hung-ta	DR	RS	302 Gold		No. 4 Lane 156, Chungking Rd., Taiwan
Chiang, Yuh	GR	AGC			No. 38 Park Rd., Chang-hua, Taiwan
Chick, Garland Forbes	SR	CEC	2427 Greenway Ave.	TE4-8630	2427 Greenway Ave., Raleigh, NC
Childers, Donald Duane	MR	APY	211 Park Ave.		1101 W. "C" St., Kannapolis, NC
Childers, Boyd Wesley	FR	ENG	Owen Ex 4418	TE2-9437	Rt. 2 Box 912, Connelly Springs, NC
Childress, Russell Gray	FR	ARC	Syme		801 Palm Dr., Winston-Salem, NC
Chimes, Peter John	JR	ME	12 Turner St.	TE2-3098	12 Turner St., Raleigh, NC
Ching, Arthur Sing-hua			bx 4709		Dj1. Ceylon 15, Djakarta, Indonesia
Chisenhall, Ronald Lee	FR	EE	619 Glascock St.	TE2-5860	619 Glascock St., Raleigh, NC
Chiswell, Alfred Gregson, Jr.	EE	EE	25 Becton Bx 3826	TE2-9261	725 N. Weymouth Rd., Southern Pines
Chipley, Thomas Julian	JR	PD	208 Gold bx 3220		2619 Providence Rd., Charlotte, NC
Choi, Dong Myung	DR	CRE	6 Enterprise St.	TE2-4788	633 Chilsung, Taegu, Korea
Choi, Kap Sung	JR	TXI	Rt. 1, Cary	TE3-5855	Pasan, Korea
Choi, Soo Young	GR	CHE	310 Chamberlain St.		310 Chamberlain St., Raleigh, NC
Choplin, Larry Eugene	SR	MEA	P-310 McKimmon Vill.		2907 Reynolds Rd., Winston-Salem, NC
Chormey, Ernest John, Jr.	SO	TXI	1508 Frank St.	TE3-3508	39 Summer St., Westerly, RI
Christenbury, Gerald Davis	JR	ASE	123D Bragaw Bx 1504B		801 1 Box 187, Harrisburg, NC
Christensen, Robert Lawrence	GR	AGC	227 Grand Ave.	828-7549	227 Grand Ave., Raleigh, NC
Christian, Larry Grant		AGI	319 Tucker Bx 4750	TE2-9323	Rt. 1, Westfield, NC
Christian, Raymond L., Jr.	GR	EE	615C Glenbrook Dr.	834-2412	615 C Glenbrook Dr., Raleigh, NC
Christiansen, James Kenneth	GR	EST	334 Tollock Pl.	828-6403	Box 288, Viborg, S. Dak.
Christie, James Ronald	SO	AMA	1311 Wake Forest Rd.	TE3-9231	1501 Cain Rd., Fayetteville, NC
Christman, Ronald Peter	MR	PY	911 Williamson Dr.	TE2-8656	2603 Arbor Rd., Broomall, PA
Christopher, Jack Lee	SO	ME			101 E. Roosevelt St., Mebane, NC
Christopher, John Oman	SO	ME	127 Hawthorne	TE4-5838	Rt. 3 Box 391, Greensboro, NC
Chudgar, Ashvin Jayantilal	MR	TXI	Box 5788		2337 Katakawad, Ahmedabad, Gujarat, India
Church, David Bruce	JR	PMY	1710 Hillsboro St.	TE4-2001	709 Hosp. Ave., Lenoir, NC
Church, Fred Clay	SO	EE	P-222 MSH		313 W. Bingham, Statesville, NC
Church, Thomas Clayton, Jr.	JR	CEC	1709 Hillsboro	TE3-6901	Box 2544, Gastonia, NC
Church, William Dement	FR	TXI	3630 Tucker Bx 4787	TE2-9323	Box 127, Stuart, VA
Cintra, Benjamin	MR	ANS	P-323 McKimmon Vill.	828-8901	P-323 McKimmon Vill., Raleigh, NC
Citron, Joel Phillip	GR	IP	536 Barksdale Dr.	TE3-9439	536 Barksdale Dr., Raleigh, NC
Clapp, Allen Linville	SO	ARC	311 katauga	TE2-9132	Siler City, NC
Clark, Adelaide Trowbridge	FR	AS	110 E. Park Dr.		109 Lanier Lane, Swannanoa, NC
Clark, Chester Franklin	SR	ME	Box 602, Cary		Rt. 2, Oteen Branch, Asheville, NC
Clark, Clarence Raymond	FR	CH	265 Tucker Bx 4732	TE2-9387	Box 338, Skyland, NC
Clark, Donald Lawrence	SR	MEA	302 Berry Bx 4322	TE2-9363	5010 Longfellow St., McLean, VA
Clark, Lora Ann	SR	SED	1202 Highland Rd.	EM2-9397	1202 Highland Rd., Garner, NC
Clark, Edward Thorne	JR	PY	Berry Bx 4312		1118 N. Main St., Mt. Airy, NC
Clark, Ernest Calvin, Jr.	SO	PPT	203D Bragaw Bx 15056		Rt. 1 Box 40, Stanley, NC
Clark, Grover Cecil			3151 Stanhope Ave.	TE2-8352	Rt. 1, Marshall, NC
Clark, Hugh A.	SR	AED	1217 Kent Rd.		Rt. 1, Box 65, Elizabethtown, NC
Clark, Marion Michael	SR	FOM	2512 Clark Ave.	TE2-4843	Rt. 1, Canton, NC
Clark, Neil Henry	SR	RPA	1601 Hillsboro St.	TE2-6601	No. 5 Bolin Hgts., Chapel Hill, NC
Clark, Oscar M.	SR	M	107 hecton		Rt. 7 Box 137, Fayetteville, NC
Clark, Ralph Kenneth	SR	AGI	kt. 1, Cary		Rt. 4 Box 100, Siler City, NC
Clark, Richard Mello	FR	ME	2712 Bedford Ave.		1026 Jefferson, Roanoke Rapids, NC
Clark, Robert Hugh, Jr.	SO	ASH			Eagles Nest Rd., Waynesville, NC
Clark, Ronnie Frederick	FR	IA	214 Bagwell		McIven St., Zebulon, NC
Clark, Thomas Mason	FR	AM	Tucker Ex 4803	TE2-9277	301 Lakeside Ave., Burlington, NC
Clarke, Bruce Arban	FR	EE	160 Tucker Bx 4667		842 Hillside Ave., Lake Wales, FLA
Clarke, Francis Irewell	MR	EE	6 Enterprise St.	TE2-4788	601 N. Greene, Wadesboro, NC
Clarke, Fred Stuart	SO	FOR	335 Alexander bx 4196		807 E. Holly, Goldsboro, NC
Clarke, Lyman Stuart, Jr.		AGI	301 Syme		Rt. 2 Box 111, Princess Anne, VA
Claus, Thomas Michael	JR	CHE	161 Berry Bx 4301	TE2-9363	Rt. 1 Box 254, Kingston, NY
Clay, Frank Raymond	FR	PMY			2408 Dallas Ave., High Point, NC
Clayton, Charles Randall	FR	AGI	Owen Bx 4438		Box 126, Ca-Vel, NC
Clayton, Thomas Chakley	SO	MEA	2L Syme Bx 3620	TE4-9431	110 Rutherford, Pine Bluff, ARK
Clayton, Victor Edward	JR	EE	318A Bragaw Bx 15343		101 Academy, Roxboro, NC
Clegg, Philip George	SO	FOR	1800 Northgate St.		1800 Northgate St., Durham, NC
Clemmer, Thomas Anderson	FR	PY	223 Owen Bx 4478	TE2-9410	912 S. Gibbons St., Gastonia, NC
Clemmons, Charles Moody	FR	EE	317 Becton Bx 3785	TE2-9372	Rt. 2 Box 120, Clayton, NC
Clemensen, Joseph Ahrens	SO	CHE	112B Bragaw Bx 15232	TE2-9180	2221 Mimosa Pl., Wilmington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Clinard, Ray Nelson	JR	AB	414A Bragaw	TE4-9754	707 Park St., High Point, NC
Cline, Donald Leroy	MR	ABC	414A Bragaw		Box 2, High Point, NC
Cline, David Francis	JR	AB	414A Bragaw	832-4988	Rt. 3 Box 3770, Charlotte, NC
Cline, James Henry, Jr.	JR	AB	414A Bragaw	TE2-1881	Rt. 1, Bryson City, NC
Cline, Stacie Sherrill	JR	AB	414A Bragaw	TE2-7836	400-E Chamberlin, Raleigh, NC
Cline, James Joseph	JR	AB	414A Bragaw	832-9261	1107 Marine Dr., Alexandria, VA
Cline, James Joseph	JR	AB	414A Bragaw	834-4151	213 Box Ave., Thomasville, NC
Cline, William Francis	JR	AB	414A Bragaw		2805 Churchill Rd., Raleigh, NC
Cloer, Ronnie Michael	JR	AB	1709 Hillsboro St.	TE2-6901	1527 Sharon Lane, Gastonia, NC
Clontz, Charlie Jones	JR	AB	414A Bragaw	834-2098	401 Waco Rd., Kings Mtn., NC
Clontz, James William	JR	FM	304 Welch Bx 3264	TE2-9119	105 S. Sharon Rd., Lenoir, NC
Clontz, James William	JR	FM	10 Enterprise St.	833-9337	Rt. 1, Hudson, NC
Clontz, William C.	JR	FM	10 Enterprise St.	TE2-9159	Box 182, Glen Alpine, NC
Clough, Arthur George	JR	FM	812 Henderson Rd.		Rt. 1 Box 140, Candler, NC
Clowes, Thomas Hartley	JR	FM	226A Bragaw		Rt. 4 Box 155, Marion, NC
Coats, Douglas Ernest	JR	FM	106D Bragaw		4339 Oldtown Dr., Winston-Salem, NC
Coats, Douglas Ernest	JR	FM	5 Dixie Tr. Apt. 5	TE2-4361	Box 91, Hiddenite, NC
Cobb, George Ivan	JR	FM	Box 144, Cary		Box 144, Cary, NC
Cobb, Alton Parks, Jr.	JR	FM	907B St. Mary's	TE4-1230	Box 417, Battleboro, NC
Cobb, Audrey Whitehead	JR	FM	Box 3203	TE2-9119	Box 406, Elm City, NC
Cobb, Clyde Capehart	JR	FM	B-15 McKimmon Vill.	TE2-3660	138 Morris Cr., Edenton, NC
Cobb, Gene Bivens	JR	FM	155 Owen	TE2-9142	417 Bivens St., Wingate, NC
Cobb, Herbert Henry, Jr.	JR	FM	1806 Hilton St.	TE2-7459	1806 Hilton St., Raleigh, NC
Cobb, Stephen Russell	JR	FM	245 Owen Bx 4457	TE2-7459	Rt. 1, Gibsonville, NC
Coble, Cecil Nello	JR	FM	1418 Oakwood Ave.	TE2-1775	1410 Oakwood Ave., Raleigh, NC
Coble, Charles Joseph	JR	FM	3414 Hillsboro St.	VA8-9181	618 Presbyterian Ave., Laurinburg, NC
Coble, Charles Roscoe, Jr.	JR	FM	120C Bragaw, Bx 15245	TE2-9180	820 Central Ave., Burlington, NC
Coble, Charles Grover	JR	FM	1425 Curreman St.		1808 3rd Loop Rd., Florence, SC
Coble, Harold Dean	JR	FM	Box 15314		Rt. 3, Liberty, NC
Coble, Wesley Milton	JR	FM	215 Watauga	TE2-9132	112 Parker St., Smithfield, NC
Coburn, Rosina Traneva	JR	FM	5509 Old Stage Rd.	TE2-8504	5509 Old Stage Rd., Raleigh, NC
Cochran, Robert Charles	JR	FM	134 Bagwell		Box 32, Robersonville, NC
Cochrane, Charles Thomas	JR	FM	208 Berry Bx 4315	TE2-9363	601 Old Winston Rd., High Pt., NC
Coeke, William Thomas	JR	FM	323 Alexander Bx 4186	TE2-9349	612A Cedarwood Dr., Charlotte, NC
Cockerham, Zebulon Vance	JR	FM	414E Bragaw	TE2-9745	1625 Sterling Dr., Charlotte, NC
Coff, Benny Clifton	JR	FM	2095 Bardwell Rd.	828-9756	2905 Bardwell Rd., Raleigh, NC
Coffey, Bertram Watts	JR	FM	203 Groveland Ave.		Box 902 Rt. 1, Sanford, NC
Coffey, Barry Weldon	JR	FM		TE2-9115	Rt. 5 Box 622, Lenoir, NC
Coffey, Thomas Gatewood	JR	FM	P-121 McKimmon Vill.		1720 Canterbury Rd., Raleigh, NC
Coffey, Rufus Gamewell	JR	FM	237 W. Park St. Cary		237 W. Park St., Cary, NC
Coffey, Charles Augustine	JR	FM	4714 Wildwood St.	TE2-5144	4714 Wildwood St., Raleigh, NC
Coffey, William Carroll	JR	FM	Fourth	TE2-9159	610 W. Central Av., LaFollette, TENN
Coffey, Joseph Daniel	JR	FM	C-22 McKimmon Vill.	828-8892	RR 5, Martinsville, IND
Coggins, Thomas Edward	JR	FM	2719-C Kilgore Ave.	828-6371	Rt. 1, Sanford, NC
Coggins, Thomas Edward	JR	FM	414A Bragaw Bx 15157		217 E. Horah St., Salisbury, NC
Coggins, Nolan Sherrill	JR	FM	2719 Rosedale Ave.	TE2-3396	221 Moon St., Thomasville, NC
Coggins, Robert Glover	JR	FM	1 Becton	832-9761	202 Moon St., Thomasville, NC
Cohen, Alan Barry	JR	FM	332 Tucker		1011 Forrest Ave., High Point, NC
Cole, Donald Wayne	JR	FM	224D Bragaw		1114 Elwell Ave., Greensboro, NC
Cole, George Winslope	JR	FM	106 Bagwell		Jamison, PA
Cole, Paul Blake	JR	FM	602 Dixie Tr.	828-9528	1303 Overland Dr., Durham, NC
Cole, Robert Edward	JR	FM	123 Turlington Bx 4220	834-9279	Rt. 9 Box 98, Greensboro, NC
Cole, Weldon Roger	JR	FM	324C Bragaw		801 Grace St., High Point, NC
Coleman, Charles Burnett	JR	FM	200 Brooks Ave.	TE2-4331	Rt. 2 Box 44, Tabor City, NC
Coleman, Donald Larry	JR	FM	116A Bragaw Bx 15235	832-9180	Rt. 1 Box 104, Hurdle Mills, NC
Coleman, Jack Kinsey	JR	FM			Hiwassee St., Murphy, NC
Coleman, James Donald	JR	FM	228 Tucker Bx 4699	TE2-9387	202 Tremont Dr., Burlington, NC
Coleman, Louis, Jr.	JR	FM	2341 Grant Ave.	828-3840	3 Pinecrest Pkwy., Wilmington, NC
Coleman, Wendell Lee	JR	FM	262 Tucker	TE2-9387	2375 Magnolia Ave., Buena Vista, VA
Coley, Charles Rowe	JR	FM	2705-A Gordon St.	828-7920	1113 N. College Ave., Newton, NC
Cornelius, Ronald Joe	JR	FM	224 Becton Bx 3758	TE2-5334	584 Swannanoa Ave., Asheville, NC
Collette, Thomas Fred	JR	FM	Owen Bx 4534		King's Hill P.O., St. Croix, Virgin Islands
Collingwood, George Howard	JR	FM	UK-36 Vetteville		1529 Glenn Sch. Rd., Durham, NC
Collins, Anthony Earl	JR	FM	5119 Fayetteville Rd.	TE2-7307	2929 Reynolds Park Rd., Winston-Salem, NC
Collins, Charles Allen	JR	FM			Rt. 1, Holly Springs, NC
Collins, Dale K.	JR	FM	3205 Cynane Cir.	TE4-6128	3205 Cynane Cir., Raleigh, NC
Collins, Francis Wiley	JR	FM	5655 Western Blvd.		5655 Western Blvd., Raleigh, NC
Collins, Henry Carl, Jr.	JR	FM	216 Tucker Bx 4687	TE2-8387	Rt. 1, Holly Springs, NC
Collins, Holland Harold	JR	FM	910 Chaney Rd.	828-3633	Rt. 1, Whiteville, NC
Collins, James Frank	JR	FM			1101 Vickers Ave., Durham, NC
Collins, James Reese	JR	FM	409 Glascock St.	TE3-8828	409 Glascock St., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Collins, John Nolan	GR	A	508 N. Woodrow St. Fuquay Springs	687-5748	508 N. Woodrow St., Fuquay Sprs., NC
Collins, Marvin Ernest	FR	ARC	311 Perry Ex 4331 Benton Ex 4798	TE2-9363	304 S. 5th St., Mebane, NC
Collins, Roger Dale	FR	E			Rt. 2, Boonville, NC
Collins, Roger Eugene	SR	ATD	4700 Hillsboro St.	TE2-9763	Rt. 2, Sparta, NC
Collins, Roger Mann	FR	EE	247 Tucker		125 Harding St., Greenville, NC
Collins, William John	SO	EE	2319 Milburne Rd.	TE2-8987	2319 Milburne Rd., Raleigh, NC
Colquitt, William Roy, Jr.	SO	AA	11 Maiden Lane	VAB-4643	403 Miles Rd., Shelby, NC
Colson, Thomas Lee	FR	AT	Box 15263		Rt. 1, Box 397, Norwood, NC
Coltrane, Glenn Gray	FR	EE	1907 Cameron St.	833-1113	Rt. 9 Box 69, Greensboro, NC
Colvin, James Robert	FR	EE	208 Owen Ex 4465	TE2-9410	613 Mangum St., Reidsville, NC
Combs, John Paul	FR	IE	Box 4774	TE2-9323	Rt. 1, Vilas, NC
Comerma, Juan Antonio	MR	SSC	Hillsboro YMCA		37 #17-50, Barquisimeto, Lara, Venezuela
Compos, John Alex	SR	EST	7 Maiden Lane		112 Ann St., Wilmington, NC
Compton, Daniel Wayne	JR	NE	205B Bragaw		904 Spring St., Durham, NC
Compton, James S., Jr.	SR	EE	2319 Grant Ave.	828-2682	2319 Grant Ave., Raleigh, NC
Compton, Larry Thomas	JR	TXT	Box 15188		Rt. 1, Hillsboro, NC
Cone, Cesar	SK	ME	1710 Hillsboro St.	TE4-2001	506 Cornwallis Dr., Greensboro, NC
Connell, Philip Griffin	SO	FOR	237 Owen Ex 4431	832-9252	Rt. 10 Box 465, Charlotte, NC
Connell, Wiley Drisco	FR	ME	Q-124 McKimmon Vill.		818 Henry St., Roanoke Rapids, NC
Connell, James Koulton	SO	CEC	303 Beeton		201 Avery Ave., Morganton, NC
Connolly, John Grady, Jr.	SK	NE	4205 Western Blvd.	TE2-6170	1208 Buchanan St., Charlotte, NC
Connolly, Richard Paul	GR	EE	2301 Lake Dr.	TE2-8085	220F Court St., Syracuse, NY
Conner, Bobby Joe	SR	FCM	118C Bragaw Ex 15241	TE2-9180	Rt. 3 Box 4488, Wilmington, NC
Conner, Joseph Franklin	SO	CE	122 Beeton Ex 3722	TE2-9256	109 E. Hanover St., Clinton, NC
Conner, Robert Wayne	SR	ATH	9024 Brooks Ave.		Clover, VA
Cooch, Robert Joseph	FR	RFA	222 Tucker		707 E. Norwegian St., Pottsville, PA
Cook, Charles Hugh	UN	GS	354 Tucker Ex 4781	TE2-9323	400 37th St., S.W., Hickory, NC
Cook, Charles Richard	FR	ME	Box 3007	TE2-9447	Rt. 5 Box 67, Mt. Airy, NC
Cook, Christopher Dixon	UN	GS	16 Horne St.		215 Manhasset Woods Rd., Manhasset, NY
Cook, Fred Roscoe	SR	IE	223B Bragaw		RFD 4, Boone, NC
Cook, Harold Craig	SR	IATO	813A Bragaw Ex 15124	TE2-7050	204 N. Roberts St., Mt. Olive, NC
Cook, Jerry Avalae	JR	ARC	10 Enterprise St.		1804 Mansfield St., Winston- Salem, NC
Cook, Lawrence Dew	FR	CE	204 Furches St.	TE4-8000	1507 Pine St., Lumberton, NC
Cooke, Charlie Harrison	MR	AMA	6 Ferndell Lane	TE2-2265	Rt. 1, Lawndale, NC
Cooke, Chester Wash	SO	TXT			313 North St., Belmont, NC
Cooke, James Robert	MR	AGE	Host Apt. Beeton	TE4-7791	Box 3732, NC State Coll., Raleigh, NC
Cooke, Kenneth Jackson	SR	AGI	Box 15278		Rt. 2 Box 251, Huntersville, NC
Cooke, Lloyd Alfred	JR	CE	1341 Chester Rd.	834-7112	212 Milford Hills Rd., Salisbury, NC
Cooke, Nancy Browning	MR	QIG	Host Apt. Beeton	TE4-7791	Box 3732, NC State Coll., Raleigh, NC
Cooley, Austin Craig	JR	CH	514 Phelps Ave.	833-2488	221 New Bern Ave., BlackMtn., NC
Coon, Donald Wayne	JR	LA	710 Jones St. Apt 8		1515 N. Baker St., Santa Ana, CAL
Cooper, Bruce Bollinger	FR	LB	Box 4754	TE4-9739	Rt. 2 Box 61, McLean, VA
Cooper, Charles Horne	FR	NE	13 Bagwell Ave.	832-3420	Box 4007, Apollo Beach, FLA
Cooper, Charles Nelson	FR	E	Box 3544	832-9288	Rt. 3, Shelby, NC
Cooper, Donald Thomas	FR	CS	F-14 McKimmon Vill.	833-2945	RR 2, Cloverdale, IND
Cooper, Gary Robert	FR	EE	211 Syme Ex 3543		211 Glendale, Morganton, NC
Cooper, Glen Eliot	SR	FY	Box 31	TE2-9132	Box 191, Ahsokie, NC
Cooper, James Zebulon	JR	TXT	19 Beeton	TE2-9261	66 10th St., E. Laurinburg, NC
Cooper, Jerry Hayfield	FR	EE	315 Owen Ex 4530	TE4-9350	Rt. 1, Haw River, NC
Cooper, John Clinton	FR	ME	21 Enterprise St.	TE4-2815	Rose Hill, NC
Cooper, Robert Douglas	FR	CHE	150 Tucker	TE2-9387	4910 Cottonwood Dr., Fayetteville, N
Cooper, Robert William	SR	ME	206A Bragaw		Box 146, North, SC
Cooper, Stuart Allen	FR	AMA	65 Owen		2829 Wesleyan Ln., Winston-Salem, NC
Cooper, Tommy Farker	SO	NE	2211 Hope St.	834-1782	Meadow Brook Rd., Rocky Mount, NC
Cooper, William Douglas	FR	EE	Sigma Pi Frat.	TE2-0268	214 Park Ave., Marion, NC
Cooper, William Troy	MR	NE	314 N. Boundry St.	834-0648	8117-17th St., Tampa, FLA
Coor, Eustace Ovid III	FR	AG	519 Gardner St.	TE2-2189	Rt. 2 Box 525, Smithfield, NC
Coors, Joseph, Jr.	SO	AMA			126 Daniels Rd., Chapel Hill, NC
Cope, Daniel Wyattte, Jr.	MR	AGE	112 Owen Ex 4408	TE2-9115	Rt. 4, Lexington, NC
Cope, Robert Lee, Jr.	SR	ME	105B Bragaw Ex 15109		84 Eva Dr., Concord, NC
Cope, William Monroe	JR	EE	118 Syme Ex 3518	TE2-9288	Box 341, Cooleemes, NC
Copeland, Maurice Leroy	GR	WEE	406 Ashburn St. Graham	834-1189	406 Ashburn St., Graham, NC.
Copeland, Handal Lee	SO	ME	1620 Hillsboro St.	TE4-9378	Rt. 7, Burlington, NC
Corbett, Elbert Mayo	SO	ME	117B Bragaw Ex 15187	TE4-9757	Rt. 1 Box 21, Jacksonville, NC
Corbett, Horace Glenn	SR	CH	7 Enterprise St.	TE4-8842	RD 1, Fountain, NC
Corbett, John Hall	FR	MEA	108 Garner Rd.	TE4-2882	608 Garner Rd., Garner, NC
Corbett, Kenneth Franklin	JR	EE	2323 Grant Ave.	832-8707	2323 Grant Ave., Raleigh, NC
Corbett, Thomas Busbee	FR	AMA	Rt. 3, Raleigh	TE4-3889	Rt. 3, Raleigh, NC
Corbin, Frederick Thomas	MR	CS	453 Williams Hall		Rt. 6, Box 91, Raleigh, NC
Cordell, Jerry Wayne	SR	RFA	1106 Brighton Rd.	TE4-4668	1106 Brighton Rd., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Cordell, Vance Hilton, Jr.	SR	IATO	F-306 McKimmon Vill.	VAB-5340	P-306 McKimmon Vill., Raleigh, NC
Corn, Bonnie Wayne			Watauga Bx 3054		105 W. Car. Ave., Hendersonville, NC
Corn, James Ray	JR	CH	4322 NEN		213 Fairgrounds Ave., Andersonville, NC
Corn, Stuart Allen	SO	GS	101 Welch		74 Hickory Dr., Oakland, NC
Cornelison, William James	UN	GS	147 Owen Bx 4438	TE2-9242	Rt. 4 Box 452, Salisbury, NC
Cornelius, Clarence Preston	SR	ABF	1718 Hillsboro	VAB-4404	Rt. 1, Troutman, NC
Cornell, Robert Tuxford	SR	EE	325 Owen	TE2-9300	128 Ligger Rd., Ft. Washington, NY
Corning, Robert Cornif, Jr.	JR	ME	119 Brooks Ave.	828-5175	Rt. 1, Newmarket, NC
Corns, Jimmy Dell	FR	AGE			Rt. Lawsonville, NC
Cornwell, Larry Ray	SR	MT	2504 Vanderbilt Ave.	VAB-5333	Rt. 1, Swaley, NC
Cornwright, Frederick William, Jr.	FR	EE	229 Bagwell	TE2-9131	29 Pine St., Badin, NC
Cort, John Erwin	FR	ARC	304 Watauga Bx 3040		Rt. 2 Box 1122, Asheville, NC
Cortier, Joan Lorraine	JR	ANA	3211 Arthur Ct.	TE3-9370	3211 Arthur Ct., Raleigh, NC
Cosgrove, John Howard	GR	GHE	2131 North Blvd.	TE2-6893	5816 Bonfire Dr., Louisville, KY
Cosio, Carlos	MR	GS	2612 Vanderbilt Ave.	828-2610	3319 Bolivar, Cochabamba, Bolivia
Costes, Nicholas Constantine	GR	GE	1851 W. Smallwood	833-5318	1851 W. Smallwood Dr., Raleigh, NC
Costner, Harry Huitt	FR	GE	257 Turlington Bx	TE2-9297	515 Forney Ave., Lincoln, NC
			14202		
Cottle, Thomas Pewton	FR	MEA			308 S. Harrison Ave., Cary, NC
Cotton, Lawrence McNeill	JR	FE	113 Gals Bx 3210		Rt. 1, Raleigh, NC
Couch, John Edwin	JR	GE			2920 Chapel Hill Rd., Durham, NC
Couch, Dennis Floyd	FR	EE	Bx 3044	TE2-9132	Rt. Page Rd., Morrisville, NC
Couchell, Gus Perry	MR	AFY	3200 Hillsboro St.	TE3-4859	512 Sunnyside Ave., Charlotte, NC
Coulter, Baxter Wayne	JR	LA	909 Grovemont	TE3-5704	909 Grovemont, Raleigh, NC
Coulter, Harvey Monroe	FR	ARC	Bx 3560		Box 396, Maiden, NC
Coulter, Homer F., Jr.	MR	AMA	3454 Leonard St.	TE4-6084	3454 Leonard St., Raleigh, NC
Courter, Joseph Allan	SO	ARC	201 Watauga Bx 3019	TE2-9132	102 Oval Rd., Essex Fells, NJ
Coutu, Arthur James			201C Dept. Agr. Ec.	TE4-5878	3415 Wade Ave., Raleigh, NC
Coutu, Jean Marie			3415 Wade Ave.	TE4-5878	3415 Wade Ave., Raleigh, NC
Coville, Edward More	FR	POM	411B Bragaw		Atkinson, NC
Covington, James Roy	SR	FOR	Bx 15134		1404 E. 6th St., Lumberton, NC
Covington, Jimmy Ray	SO	TX			110 N. Belvedere, Gastonia, NC
Covington, John Harry	FR	MEA	203 Groveland Ave.	TE2-1614	110 N. Belvedere Ave., Gastonia, NC
Cowan, Donald Graham			Tucker Bx 458	TE2-9388	Rt. 2 Box 298, Cleveland, NC
Cowan, Julius Dowdle	FR	MEA	112 Burlington		79 Tacoma Circle, Asheville, NC
Cowan, William Matthew	FR	ENG	312 Bagwell Bx 3398	844-1441	1019 Jefferson Dr., Greensboro, NC
Cowan, William Matthew	MR	FE	2000 Avenet Ferry Rd.		1642 S. 7th St., Brainerd, MN
Cowles, Reuben Reynolds, Jr.	FR	ASL	204 Burlington Bx 4335	TE4-9240	Box 212, Statesville, NC
Cox, Alfonso Ward	SO	EE	McSwains Trailer Pk.		313 Golf Rd., Plymouth, NC
Cox, Charles LaRoyce	SR	EE	230 Alexander		77 Hyland Ave., Concord, NC
Cox, Charles Eugene	FR	AWI			Rt. 1 Box 86-H, Goldsboro, NC
Cox, Charles Oscar	SR	NE	3410 Hillsboro	828-5237	3410 Hillsboro St., Raleigh, NC
Cox, David Randolph	FR	EE	Bx 3776	TE2-9372	Rt. 2, Snow Camp, NC
Cox, Edwin Grover	JR	EE	3041 Farrior Rd.		3041 Farrior Rd., Raleigh, NC
Cox, Hugh Dalton	JR	FE	1401 Fairview Rd.	TE4-4036	1401 Fairview Rd., Raleigh, NC
Cox, James Gilbert	FR	EE	135 Alexander Bx 4128	TE2-9257	307 Hillside Ave., Lexington, NC
Cox, James Lester, Jr.	JR	FE	3009 Leonard St.	TE3-4006	Rt. 1, Reidsville, NC
Cox, James Thomas	FR	TAT	222 Turlington		523 S. Park St., Asheboro, NC
Cox, Jerry Lester	FR	AWI	131 Hill St.	832-9939	Rt. 1, Four Oaks, NC
Cox, John Thomas	FR	GE	158 Owen Bx 4449	TE2-9437	Rt. 1, Whiteville, NC
Cox, Jerry Dixon, Jr.	SO	ATC	224A Bragaw Bx 15302		Beech Ridge Rd., Belhaven, NC
Cox, Myron Keith	FR	FE	810 E. Pineland Dr.	828-6339	1065 Yale St., Akron 1, OHIO
Cox, Ralph William	FR	EE	204 Tucker Bx 4677	832-9387	551 Efirid St., Winston-Salem, NC
Cox, Walter Thompson, Jr.	JR	CE	308 Hillcrest Rd.	TE3-4934	605 River Rd., Jacksonville, NC
Cox, Wayne McCaskell	JR	AG	2527 St. Mary's	828-4995	Rt. 3 Box 38, Tabor City, NC
Cox, William Alfred	JR	ASV	4 Stadium Bx 4349		1785 Santa Dr., Winston-Salem, NC
Cox, William Frederic	JR	ME	21 Daisy St.	TE4-6797	Box 338, Grifton, NC
Cox, William Mondier	JR	GE	2720 Everett Ave.		Box 964, New Bern, NC
Cozart, Stuart Lee, Jr.	FR	MEA	1111 Ave. Apt. 5		Rt. 5 Box 393, Morganton, NC
Crabtree, Joe Morris, Jr.	JR	EE	Bx 3114	TE2-9363	Rt. 1, Graham, NC
Craddock, Dabney Scott, III	JR	CEC	2426 Hillsboro St.	834-9859	105 Bauersfeld St., Harlet, NC
Craddock, Jesse Warren	JR	EE	305 Berry Bx 4325		1215 Land St., Norfolk, VA
Craft, William Jacob	FR	TAT	241 Owen	TE2-9131	Rt. 1, Cherryville, NC
Craig, Robert McMeekin	FR	FE	1-22 McKimmon Vill.	828-2673	1215 N. Main St., Rutherfordton, NC
Cranford, Jerry Colon	FR	FE	201 Watauga		329 Pineapple St., Tarpon Sprs., FLA
Crater, Glenn Douglas	JR	ME	41 Owen Bx 4578	TE2-9142	Rt. 2 Box 58, Harmony, NC
Crates, Thomas Bond	JR	GS	107 Tucker Bx 4620	TE2-9367	1509 Lilac Rd., Charlotte, NC
Craun, Raymond Miller, Jr.	FR	ME	211 Hawthorne St.	828-9143	1713 Forest Dr., Camden, SC
Craven, Resal Alfred, Jr.	JR	EE			Rt. 1, Seagrove, NC
Craven, Ronnie Carroll	JR	ALD	124C Bragaw	TE2-9180	Rt. 2 Box 475, Concord, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Craver, Daniel Poil	FR	EE	201 Owen	TE2-9410	2009 Sussex Lane, Winston-Salem, NC
Craver, Walter Pat	FR	CE	Ex 4681	TE2-9387	St. 8, Lexington, NC
Crawford, Claude Cecil	SO	FY	710 N. Bloodworth	TE2-7868	710 N. Bloodworth St., Raleigh, NC
Crawford, William George, Jr.			308 Horne St.	TE2-7050	1503 Averdeen Ave., Goldsboro, NC
Crawford, William Gerline	FR	FY	51 Owen Ex 4595	832-9142	Rt. 4, Franklin, NC
Crawford, William Henry	JA	ME	1133 Cowper Ln.		506 Washington St., Roanoke Rapids, NC
Creech, David Haywood	SO	ALD	311 Alexander ex 4174		Rt. 2, Kenly, NC
Creech, George Clifton	FR	CHE	232 Owen ex 4487	TE2-9410	Rt. 1, Hallsboro, NC
Creech, Leonard Ralph	SE	EE			412 Kingsbury St., Oxford, NC
Creech, Louis Edward, Jr.	JA	NE	338 Tucker	TE2-9323	448 Goldsboro Ave., Carolina Beach, NC
Crenshaw, Frank Olvin			303A Bragaw Bx 15104		3009 Idlewood Cir., Charlotte, NC
Crenshaw, James Lewis	JR	LE	2310 Hillsboro St.	828-5093	Box 69 Rt. 7, Charlotte 6, NC
Cresmore, Joe Huitt	FR	LE	315 Owen Ex 4470		Rt. 2, Newton, NC
Cress, Tracy Samuel	SO	ASL	105 Chamberlain St.	TE2-1059	Rt. 4, Concord, NC
Crews, David Marion	SO	LE	155 Owen Ex 4446		Box 102, Stoneville, NC
Crews, John Harold, Jr.	NR	AM			23D Brookwood Apts., Burlington, NC
Cribbin, David Edmund	FR	AMA	2514 Clark Ave.	TE2-9148	2227 Friendly Rd., Greensboro, NC
Crigler, Henry Jewles	SR	CHE	359 Owen		304 Julia Ave., Belmont, NC
Criener, Sherman Louts	SR	LE	4-319 MSH		2813 Patterson Ave., Winston-Salem, NC
Crocker, Sue Macon	FR	ME	1515 Canterbury Rd.	TE2-0792	1515 Canterbury Rd., Raleigh, NC
Cromartie, Thomas Lafayette, Jr.	SR		1230 Bragaw Bx 15043		4937 Wrightsville Av., Wilmington, NC
Cron, Fred Holmes	JR	CEC	240 Furlington	TE2-9297	3624 Conn. Ave. N.W., Washington, DC
Croom, Martin Robert	SR	IATO	702 Pine Tr.	TE2-7051	702 Pine Tr., Raleigh, NC
Croom, Thomas Hall	SR	CE	211 Hawthorne St.		220 Woodcrest, Fax, NC
Cross, Frank Tucker	SR	ARC	1508 Hillsboro St.	TE2-6153	Sunbury, NC
Cross, James Michael	JR	ME			810 Lewis St., Asheboro, NC
Cross, John McDonald	SR	TXT	1710 Hillsboro St.	TE4-2001	Montevista Ave., Marion, NC
Cross, Kenneth Elmer	JR	AMA	315 Alexander Bx 4178	TE2-9349	Rt. 2, Ruffin, NC
Cross, Thomas Emmons	JR	ASL	313 Alexander Bx 4176	TE2-9349	26 Cross Rd., Basking Ridge, NJ
Crossland, William Earl	SO	PPT	1100 Brooks Ave.	TE2-3292	1100 Brooks Ave., Raleigh, NC
Crouse, Charles Ray	FR	EE	Bx 3798	TE2-9372	Box 211, State Rd., NC
Crouse, Walter Wayne			2835 Barnettler		3680 Cornell Blvd., Winston-Salem, NC
Crovatt, Lawrence Worth, Jr.	JR	CH	4928 Grinnell Dr.	833-0348	4928 Grinnell Dr., Raleigh, NC
Crow, William Roland	JK	TE	2407 Clark Ave.	TE2-2480	224 S. Hillcrest Dr., Goldsboro, NC
Crowder, James Uriah	GR	EN	1037 St. Mary's		34 Highland St., Asheville, NC
Crowe, Needham Clifford, Jr.	SR	CE	4130 Bragaw Bx 15129		312 Johnson St., New Bern, NC
Crowe, Roger David	FR	TXT	116 Hawthorne Rd.		Rt. 3, Shelby, NC
Crowell, Joseph Spottswood	GR	AMA	2626 Kilgore Ave.	VA8-3510	Box 117, Enka, NC
Crowell, William Spencer	JK	CE	101 Oberlin Rd.		3514 Trent St., Charlotte, NC
Croxton, Randolph Rudisill	FR	ARC	Bx 262	TE2-9297	2617 Edgewood Ave., Burlington, NC
Cruikshank, James Patrick	SR	TXT	2735 Rosedale Ave.	TE3-8283	40 Midland Dr., Asheville, NC
Crum, Charles William	JK	GN	2510 Vanderbilt Ave.	TE4-4072	230 Delespine, Indian River City, FLA
Crummie, Glen Mikel	JR	RPA	611 Daniels St.	833-4772	1504 Morganton Rd., Fayetteville, NC
Crump, Robert Sylvester, Jr.	JK	MA	Syme Bx 3530	832-9288	3816 Ironwood St., Charlotte, NC
Crumpler, Brian Leslie	FR	CEC	3114 Watauga Bx 3046	TE2-9132	1213 Sunset Ave., Clinton, NC
Crumpler, Leonard Burke	UN	OS	1901 Craig St.	TE4-4570	1901 Craig St., Raleigh, NC
Cruse, Larry Orlin	JR	EE	216 Ashe Pl.		3224 Sargeant Dr., Charlotte, NC
Crutchfield, John Scoggin	SR	PY	3009 Leonard St.		552 Maple Ave., Reidsville, NC
Crutchfield, Robert Herring	SO	CHE	Bx 15137	TE2-9198	600 Wilson St., Kannapolis, NC
Culbertson, John Steele	SO	EE	Bx 4167	TE2-9349	906 Balmoral Dr., Silver Sprs., MD
Cubreth, Thomas Eastwood	JK	FE	234 Alumni Bldg.	TE2-9322	610 Ridge St., Southern Pines, NC
Cullipher, James Milton	SR	AFI	1313 Ridge Rd.	834-7073	Merry Hill, NC
Culp, Richard Earl	JK	MTE	305 Welch Bx 3265	TE2-9119	12 Chatham Rd., Asheville, NC
Culpepper, William Henry	SW	ASB	13 Berry Bx 4345	TE2-9350	Rt. 1 Box 23, Rocky Mount, NC
Cumbo, Frederick Earl	FR	ATC	225 Syme Bx 3557		Rt. 2 Box 71, New Bern, NC
Culver, Horace Mitchell	FR	MSA	111A Bragaw Bx 15120	TE4-9179	310 Sunset Ave., Rockingham, NC
Cummings, Paul Junior	FR	AGI	3048 Sta. Coll.		Rt. 2, Vass, NC
Cunningham, Charles Hanson	FR	ASW	367 Owen	TE4-9300	3719 Palstone Rd., Richmond 34, VA
Cunningham, Glenn Norman	FR	AGS	P-318 MSH		Rt. 1, Spring City, TENN
Curlee, Bruce Alfred	SO	EE	125 Hawthorne Rd.	TE2-1183	503 Concord Rd., Albemarle, NC
Cunningham, Thomas Greeley	FR	ME	350 Owen	834-9283	603 E. Park Dr., Monroe, NC
Curlee, George Michael	SO	EE	214 Watauga		1127 W. Horah St., Salisbury, NC
Curlee, James Phillip	JK	AGI	312 Berry Ex 4332		503 Oakview Rd., High Point, NC
Currin, Cecil Bruce	JK	AGI	117B Bragaw Bx 15030		Rt. 1, Washington, VA
Currin, James Thomas	FR	MSA	306 Tucker Bx 4739	TE2-9323	3107 Hornsea Ct., Norfolk, VA
Currin, Jerry Lee	SR	TAT	1260 Bragaw Bx 15257		206 Catherine St., Benson, NC
Currin, Wallace Lunaford	FR	AGI	Owen Bx 4595	832-9142	Rt. 2, Rowland, NC
Curtis, Burnell Parker, Jr.	SR	CHE	1501 Benehan St.	TE4-0271	4013 Cherry Ave., Wilmington, NC
Curtis, Cecil Lawrence	JA	MSA	1220 Bragaw	VA8-7759	1601 Burton St., Rocky Mt., NC
Curtis, Douglas Vaughan	FR	I			4013 Cherry Ave., Wilmington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Curtis, Thomas Allen	SO	ASZ	240 Turlington	TE2-9297	Box 177, Bridgeton, NC
Cusworth, Margaret	UN	GE	1308 Ashburton Rd.	VA8-5608	1308 Ashburton Rd., Raleigh, NC
Cusworth, Maynard Clarence	PHO	IS	1308 Ashburton Rd.	VA8-5608	1308 Ashburton Rd., Raleigh, NC
Cutchin, Richard Lee	SO	EE	Box 144, Cary	833-1702	539W 36th St., Norfolk, VA
Cutchins, James Albert	FR	RFA	318 Syme Bx 3582	832-9222	1418 Limer Ave., Norfolk, VA
Cutler, Roy Allen	JR	ASH	Bx 1500A	828-8182	Rt. 2 Box 363, Washington, NC
Cutler, Ronald Lee	FR	ATS	2804 Hillsboro	TE2-2654	Rt. 2 Box 359, Washington, NC
Cutts, James Warren	SO	ATE	51 Owen Bx 4590		Box 75, Stovall, NC
Cutts, Thomas Taswell	SO	AGE	Bx 15037	TE2-9129	Box 5, Stovall, NC
Dabbs, Ronald Lee	JR	AMA	2316 Hillsboro	833-5587	Rt. 3, Wadesboro, NC
Dade, Henry Chandler	FR	ME	148 Tucker Bx 4655	TE2-9388	22 Central Dr., Glen Head, NY
Dagenhart, Allen Vaughn	JR	ASE	330 Owen Bx 4545	TE2-9300	Rt. 1, Stony Point, NC
Dagerhart, Marlan Myers, Jr.	SO	MED	<120 McKimmon Vill.	828-9469	Rt. 2 Box 5, Taylorsville, NC
Dagerhart, James Alvin	JR	MBA	1160 Bragaw Bx 15237	TE2-9180	815 Kings Rd., Shelby NC
Daniels, Earnest Manta	MA	OTG	502 Chamberlain St.		Dev Colony, Rohtak, India
Dail, George Alonzo	SO	MEA		TE2-9297	1516 W. Wash St., Wilson, NC
Dail, Luther Harry	FR	ME	138 Owens	832-9115	703 W. 5th St., Ayden, NC
Dalby, David Herman	FR	ATI	Owen Bx 4475	TE2-9410	Bx 14, Blanch, NC
Dalby, Jack Clifton	SO	RY	2109 Glenwood Ave.	TE2-6313	2109 Glenwood Ave., Raleigh, NC
Dalal, Subhash Panazzaz	JR	ME	54 Dixie Dr.		55A Warden Rd., Bonbay 26, India
Dale, Jim Enoch	DR	PPH	3302 Dunn Ave.		3302 Dunn Ave., Raleigh, NC
Dale, Peggy Elizabeth	OR	PEV	Rt. 4, Raleigh	VA8-2147	Rt. 4, Piney Plains Rd., Raleigh, NC
Dalboux, Mary Magdalen	JR	OK	2619 Broadwell Dr.		74 Plandy, Biesme-Lez-Fosse, Belgium
Daleo, Leo James	FR	AKC	150 Box Ave.		Box 253, Jamison, PA
Dalton, Douglas Ray	SO	AGI	7 Becton Bx 3809	TE2-9261	RFD 1, Pine Hall, NC
Dalton, Lonnie Gene	FR	AK	1401 Beaver Lane Rd.	833-7977	1161 Penn Ave., Colton, CALIF
Dalton, Robert Edgar	DR	AMA	15 Rosemary Apts. Chapel Hill		15 Rosemary Apts., Chapel Hill, NC
Dana, Gary Lindsay	SR	CHE	Bx 5905	832-7140	Rt. 5 Box 644D, Hickory, NC
Dandiker, Donald Neal	JR	MI	239 Turlington Bx 426A	TE2-9297	2006 Wright Ave., Greensboro, NC
Daniel, Albert Thomas	SO	ABA	Bx 3022	TE2-9132	Rt. 2, Wilson, NC
Daniel, Edward Curtis	JR	FOR	1710 Hillsboro St.	TE4-2001	Spring Hope, NC
Daniel, E. Speight, Jr.	SO	AGI	Owen Bx 4579		Rt. 2 Box 212, Elm City, NC
Daniel, Elmer Eicks, Jr.	FR	AGI	343 Tucker	TE2-9323	Rt. 1, Spring Hope, NC
Daniel, Joe Farmer, Jr.	OR	ME	Bx 3561		307 W. Gold St., Wilson, NC
Daniel, John Wallace, Jr.	UN	AK	2510 Anderson Dr.	TE4-5708	2510 Anderson Dr., Raleigh, NC
Daniel, Thomas Wayne	FR	ABL	Bx 4177		No. 3, Dunn, NC
Daniel, Robert Lee, Jr.	SO	TAT	123 Tucker Bx 4643	TE2-9388	133 Cooper Ave., Henderson, NC
Daniel, Thomas Lester	FR	TAT	Syme Bx 3590	832-9222	Rt. 3, Forest City, NC
Daniel, Thomas Lee	TE		2505 Everett Ave.	TE4-8143	2505 Everett Ave., Raleigh, NC
Danielopoulou Stylianos Daniel	LR	APY	204 Park Ave.	828-9740	4, Galinou St., Athens, Greece
Daniels, Dennis Allen	JR	TAT	4200 Bragaw Bx 15296		4133 Halifax Rd., Wilmington, NC
Daniels, Harold Wayne	MA	EL			Rt. 1 Box 741, Salisbury, NC
Daniels, Henry Jefferson	SO	FOR	Mendenhalls M.H. Cary	833-3222	Mendenhalls Mobile Houses, Box 144
Daniels, William Lawrence, Jr.	SC	ME	203 Turlington	TE2-9272	305 W. Main St., Elizabeth City, NC
Danielson, Leon Ellsworth	MA	AGC	2723 Bedford Ave.	TE3-7385	RR 1, Luck, MS
Danner, Dennis Neil	JR	AT	Rt. 1, Cary	828-8039	342-19th Ave., N.E., Hickory, NC
Darden, Billie Hodges	UN	JS	1817 White Oak Rd.	TE3-2205	1817 White Oak Rd., Raleigh, NC
Darden, Charles Walton	FR	ME	3813 Memory Lane	828-8839	3813 Memory Lane, Raleigh, NC
Darling, Robert Lee	JR	ME	206 Berry Bx 4313	TE2-9363	3712 High Point Rd., Greensboro, NC
Darnell, Graham Allen	SC	MMA	212 Lafayette Rd.	VA8-4950	Rt. 2, Newport, NC
Darnell, James Earl	JR	IR	Box 361-A Cary		2715 Glenn Ave., Winston-Salem, NC
Darnell, Leonard Johnson	FR		318 Owen	TE4-9300	3510 Beachfield Dr., Winston-Salem, NC
Darwish, Mohamed Abdel-Hamid	MA	TAT	Bx 5702	VA8-2825	Box 704, Alexandria, Egypt
Darwish, Omar	MA	MT	1817 Glenwood Ave.		29/1B Ballygruga Pl., Calcutta, INDIA
Daugherty, Walter W.	OR	ME	1905 French Dr.	834-9460	1905 French Dr., Raleigh, NC
Daughtridge, John Hardy	FR	ME	227 Becton Bx 3761	TE2-9334	Rt. 4 Box 401, Rocky Mount, NC
Daughtridge, William Franklin	MA	ME	2611 Clark Ave.		Rt. 2, Box 446, Rocky Mount, NC
Daughtry, Dannie Freston	AT	AT	2221 Noble Rd.		Rt. 1, Faison, NC
Daughtry, James Frederick	JR	AK	608 Gaston St.	TE3-0468	608 Gaston St., Raleigh, NC
Daughtry, James William	OR	ATY	1300 Gorman St.	832-7648	1300 Gorman St., Raleigh, NC
Laughry, John Malcolm, Jr.	MA	AT	349 Tucker Bx 4776		331 Jefferson St., Roanoke Rapids, NC
Dave, Steven Joel	FR	ENG	357 Owen	834-9300	119 Arco Rd., Asheville, NC
Davenport, Reynold Slade, Jr.	JR	AK	103B Bragaw Bx 15006	TE2-9129	415 Brentwood Ave., Jacksonville, NC
Davenport, Ronald Elton	SC	CL			Rt. 1, Trenton, NC
Davenport, Sidney Lawrence	JR	ATF	1720 Hillsboro St.	VA8-9200	Pastolus, NC
Davenport, Vance Steve, Jr.	FR	TE	130 Tucker	TE2-9367	Box 514, Mt. Airy, NC
Daves, Charles Stephen	MA	MMA	1400 Baywell	TE4-9219	Box 108, Boiling Springs, NC
David, Abraham Zion	FR	AGC	A-16 MSH	TE4-6223	Box 8602, Jaffo, Israel
David, Joseph Farker, Jr.	JR	ME	4195 Bragaw Bx 15195	TE4-1667	Box 56, Middlesex, NC
Daivide, Romulo Gelbolingo	OR	PF	7600 Delta Dr.		6 Waling, Waling, Celeu City, PHI

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Deekens, Albert Maynard		RD	118 Hicks	TE2-9421	4125 Yadkin Dr., Raleigh, NC
Deese, Edward Paul	FR	ED	732 St. George Rd.	TE2-9369	732 St. George Rd., Raleigh, NC
Deese, Phillip Monroe	JO	ED			Box 926, Sanford, NC
De Fady, Nelson Almeida	MA	ED	303 Gold	TE2-9421	Barroco 1200 1906, Sao Paulo, BRAZIL
Demant, William Russell, Jr.	FR	ED	200 S. 1st St. Ex 3330		Box 431, Sylva, NC
Denha, Larry Donald	MA	ED	100 S. 1st St.	TE2-9421	Box 431, Sylva, NC
Denha, Frank Joseph	MA	ED	100 S. 1st St.	TE2-9421	Box 431, Sylva, NC
Delauni, John Michael	FR	ARC	100 Tucker	TE2-9322	511 F St., Sparrows Pt., MD
Dellinger, Thomas Marshall	JO	TXT			514 1st St., W., Annapolis, MD
Dellinger, Theodore C.	JO	ED	112 Huntington Ex 415		Rt. 1, Hatterasville, NC
Dellinger, Thomas Arthur	FR	MA	100 S. 1st St.	832-9115	101 1st Ave., W., Annapolis, MD
Dellostretto, Joseph Michael	JO	RFA	100 S. 1st St.	TE3-6901	1520 N. 1st St., Hatterasville, NC
DeLoach, Culver Jackson	JO	ED	1006 Gorman St.	VA8-4038	1006 Gorman St., Raleigh, NC
DeLoach, Harry O.	JO	ED	1216 Franklin Rd.		93 Bear Creek Rd., Asheville, NC
DeLong, Harry Payton	JO	ED	100 S. 1st St.	TE2-9421	300 Thurston Dr., Wilson, NC
DeLoach, Harry Payton	JO	ED	100 S. 1st St.	TE2-9421	300 Thurston Dr., Wilson, NC
Deluise, John Anthony	JO	ED	Box 3753	TE2-9332	Pine Lake Trailer Pk., Raleigh, NC
Dement, Edward Franklin	FR	CBC	200 Bagwell Ex 3339	TE2-9331	606 Dixon St., Kinston, NC
Denbo, Edward Merton, Jr.	FR	CE	106 Montgomery St.	828-7989	508 W. Knox St., Durham, NC
Denham, Charles Albert	FR	ED	128 Owen	TE2-9437	504 E. Forest Hills Blvd., Durham, NC
Denise, Clark E.	JO	ED	2351 Derby Dr.	VA8-4775	2351 Derby Dr., Raleigh, NC
Denise, Frank Delano	JO	ED	1817 Glenwood Ave.	TE3-7889	Goldsboro, NC
Denise, Frank Earl, Jr.	JO	ED	1817 Glenwood Ave.	TE3-7889	1916 Smallwood Dr., Raleigh, NC
Denner, Andrew Folk	JO	IATO	2210 St. Mary's	TE2-9421	2210 St. Mary's St., Raleigh, NC
Denning, Robert Sherrill	JO	AGI	100 S. 1st St.		Rt. 1, Benson, NC
Dennis, Edward Snuggs, Jr.	JO	ED	2402 Hillsboro	828-7130	Rt. 2 Box 300A, Clarkton, NC
Dennis, Harry Arthur	JO	ED	343 Tucker Bx 4772	TE2-9332	Rt. 1, Willow Springs, NC
Dennis, Lenwood Carl	JO	ED	16 Enterprise	828-6804	Box 161 Rt. 4, Durham, NC
Dennis, Marcus Vaughan	JO	ED	100 S. 1st St.	TE4-0447	1325 Mayfair Rd., Raleigh, NC
Dennis, William Floyd	JO	LST	100 S. 1st St.		Rt. 1 Box 300, Durham, NC
Denton, Thomas Conrad	FR	ED	204 Fourth		Box 803, Rutherfordton, NC
DePriest, William Michael	FR	ED	353 Tucker Bx 4780	TE2-9323	31 E. 2nd St., Freeport, NY
Derby, Dan Russell	FR	ED	211 Hawthorne Rd.	TE2-9143	2643 Ellerbe Ave., Winston-Salem, NC
Derby, Dan Russell	FR	ED	3474 Hillsboro	VA8-9184	212 W. Avondale, Greensboro, NC
Derby, Dan Russell	FR	ED	3474 Riddick	834-0436	5208 Olive Rd., Raleigh, NC
Derisio, John Christopher	JO	ED	100 S. 1st St.		Box 15183, NC State Coll., Raleigh, NC
Derisio, John Christopher	JO	ED	2232 Hillsboro St.	TE3-8716	208 Dermid Ave., Hendersonville, NC
Derr, Edgar Jacob	JO	ED	221 Turlington	TE2-9297	208 Dermid Ave., Hendersonville, NC
Desai, Pravinchandra Shantilal	JO	ED	100 S. 1st St.		Bhuleswar, Maharam, India
DesRochers, Joseph Omer	JO	ED	2507 Fairview Rd.	TE2-7978	Sound View Hts., Branford, CONN
DeVine, Jerry Lee	FR	ED	116 Hawthorne Rd.		Alendale Dr., Shelby, NC
DeVine, Joseph David, Jr.	JO	AMA	616 Brooks Ave.	VA8-5332	616 Brooks Ave., Raleigh, NC
Dew, William Charles	JO	ED	113 Watauga	TE2-9447	Rt. 2, Raeford, NC
Dewhurst, Lawrence Harry	JO	ED	100 S. 1st St.	TE2-9410	1952 Birchcrest Dr., Charlotte, NC
Dial, Kenneth Gordon	JO	ED	3821 Western Blvd.	TE2-9833	3821 Western Blvd., Raleigh, NC
Dial, Kenneth Gordon	JO	ED	112 Cox Ave.	TE3-3415	112 Cox Ave., Raleigh, NC
Dickens, Lawrence Thomas	FR	ED	5 Nash Terrace	833-0033	5 Nash Terrace, Raleigh, NC
Dickerson, Bobby Nelson	JO	ED	25122 Everett Ave.		102 Grace St., Oxford, NC
Dickerson, Phillip Graham	JO	ED	101 Syme Bx 3501	832-5288	Rt. 4, Louisburg, NC
Dickinson, Carl Keith	JO	ED	6 Syme	TE2-9421	Rt. 1, Spring Hope, NC
Dickinson, Luren Deems	JO	ABA	J-24 McKimmon Vill.	828-6164	Isabella Ave., Washington Pk., NC
Dickson, Raymond Shields	FR	ME	3200 Bell Dr.	833-9071	106 Knox St., Clover, SC
Dielsson, Robert Clifford	JO	TXT	P-319 McKimmon Vill.	833-4236	9 Sherring St., Hagersville, Ontario, Canada
Diehl, William, David	FR	AGC	4111 Reavis Rd.	833-1147	4111 Reavis Rd., Raleigh, NC
Dietzel, Joe Melvin	FR	CE	338 Tucker Bx 4768	TE2-9323	901 Caldwell St., Lumberton, NC
Dilda, Stancil Lawrence, Jr.	JO	ATE	62 Dixie Trail	TE2-0484	Rt. 1, Fountain, NC
Dill, Charles W.	FR	FS	1212 College Pl.	TE4-7801	Rt. 3, Taylor, SC
Dill, John Cedric	FR	LST	2402 Clark Ave.	833-9509	3375 W. 33rd Ave., Vancouver, B.C. Canada
Dillard, David George	JO	ARC	Rt. 1, Cary	467-1571	Rt. 1 Box 43, Cary, NC
Dillard, Gary Eugene	FR	BO	P-21 McKimmon	833-9504	Ridgway, ILL
Dillingham, Clarence David	JO	ATD	212 Bagwell Ex 3344	TE2-9131	Rt. 2, Asheville, NC
Dillingham, David Lee	JO	AGC	104 Ann St., Cary	TE4-8815	Box 48, Barnardsville, NC
Dillman, Buddy Leroy	JO	AGC	104 Ann St., Cary	828-9616	Rt. 1, Garfield, ARK
Dillon, Lloyd Calvin, Jr.	JO	ED	226 Syme Bx 3558	833-9164	Rt. 2 Box 43, Lumberton, NC
Dillon, James Theo.	JO	ED	100 S. 1st St.	467-9180	138 Highland Park Dr., Leaksville, NC
Dineen, John Patrick, III	JO	AN	100 S. 1st St.		321 N. Academy St., Cary, NC
Dinkins, Jerry Acey	JO	ED	100 S. 1st St.		109 Hamilton, Leaksville, NC
Dish, George Grovner	JO	MT	100 S. 1st St.		Rt. 2, Yadkinville, NC
Disney, Christopher Michael	JO	MEA	100 S. 1st St.	832-9222	361 SW 55th Ave., Plantation, FLA

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hisher, Anne Anderson		ME	164 Tucker Dorm		1607 N.W. Blvd, Winston-Salem, NC
Dixon, Morgan St. Clings	JK	CHE	Bx 5656		771 Parker St., Durham, NC
Dixon, Ronald Ray	MR	ME	2621 Avent Ferry Rd.	828-7687	2620 Penn. Ave., Roanoke, VA
Dixon, Anne Daniel	SR	CBC	1710 Hillsboro	TE4-9101	200 W. Church St., Farmville, NC
Dixon, Joseph, III	JR	ARC	3414 Hillsboro	VAR-9141	232 Blanca Ave., Tampa, FLA
Dixon, Margaret Layne	GS		1303 Courtland Dr.	828-5947	1303 Courtland Dr., Raleigh, NC
Dixon, Marlene Shirley		OS	604 Dixie Trail		179 Lee St., Jonesboro, GA
Dixon, Michael Poindexter	JR	IA	4-113 McKimmon Vill.	834-3823	Rt. 2, East Bend, NC
Dixon, Wilton Coleman	SR	IA	2826 Holly Sp. Rd.	TE4-7604	2826 Holly Spring Rd., Raleigh, NC
Dixon, Ronald Lynn	SR	AE	2303 Clark Ave.		Rt. 2, Siler City, NC
Dixon, Simon Clayton	SR	ME	2612 Clark Ave.	TE2-9484	533 Rose Lane, Raleigh, NC
Dixon, Thomas Linwood	SO	CE	Q-123 McKimmon Vill.	833-0537	1418 Park Ave., New Bern, NC
Dixon, William Warren	MR	AGC	604 Dixie Trail	TE2-9263	179 Lee St., Jonesboro, GA
Epaphrodita, Pauline	NR	FOR	704 Harris St.	TE2-4655	Komplex SKMA, BOGOR, Indonesia
Dobbins, David Paul	SO	ENG	308 Gold		509 Blanton St., Shelby, NC
Dobbins, Stephen Hill	SO	TC	407A Bragaw Bx 15165	TE2-9754	20 N. Main St., Cliffside, NC
Dobbs, George Robert	SO	MEA	3414 Hillsboro	VAR-9181	34 Woodward Ave., Asheville, NC
Dobkins, James Hugh	JR	ASH	Bx 3234	TE2-9263	7531 Oriole, Lakeside, CALIF
Doby, William Pinkney	SR	HK	1021 Northview St.	TE3-3056	111 S. East Ave., Kampopolis, NC
Dodd, Jack Griffin	FR	IE	10 Berry	TE2-3662	2614 Churchill Rd., Raleigh, NC
Dodt, John Perry, Jr.	FR	EE	326 Turlington	832-9192	17-F Pine Hill Apts., Salisbury, NC
Doggett, William Tate	FR	ARC	901 W. Johnson	TE2-5151	413 Country Club Dr., Waynesville, NC
Douglas, Halit Lafer	SR	CHE	Bx 5701		B.Evler-6. Sokak, No. 2, Ankara, Turkey
Domingo, Irene Ladia	NR	FOR	2400 Delta Dr.		Piddig, Ilocos, Norte, PHI
Donald, Joe Kennan	SO	PPT	115A Bragaw Bx 15235		2 Cedar St., Harrison, TEN
Donaldson, Charles Lafayette	FR	ME	20 Becton Bx 3821	832-6291	Rt. 7, Statesville, NC
Donovan, William Carpenter	JR	EE	2612 Clark Ave.	TE2-9484	530 Oaklawn Ave., Winston-Salem, NC
Dorman, Marvin Ray	SR	AMA	611 W. Lane	TE4-1145	3rd St., Pembroke, NC
Dorrity, Christopher Terry	SR	ARC			211 Hart St., Durham, NC
Dorsett, Edward L.	SR	EE	2717 Avent Ferry Rd.	TE4-6668	90 Flower St., Rockingham, NC
Doshi, Chandrakant Prabhudas	MR	MTE	Bx 5827		P-33 Mission Row, Calcutta, India
Dossenbach, Thomas Frederick	JR	PMX	12-23 McKimmon Vill.	828-4810	L-23 McKimmon Vill., Raleigh, NC
Dotson, Gerald Leroy	JR	POM	205 Owen	TE2-9252	412 Crescent Ave., Colonial Hgts, VA
Dotson, Larry Allen	SR	ME			Rt. 2, Hendersonville, NC
Doub, Eugene Wesley, Jr.	FR	EE	Bx 4541	TE4-9300	348 Oakdale St., Winston-Salem, NC
Doughton, Claude Thomas, Jr.	JR	AST	Tucker Bx 4631	TE2-9367	Box 41, Sparta, NC
Douglas, William Malcolm	SO	FOR	302 Turlington Bx 4267		641 Douglas Ave., Dunedin, FLA
Dove, Francis Bernard	SR	ASZ	2612 Clark Ave.	TE2-9484	5225 Carmel Pk., Charlotte, NC
Dowd, Robert Walter	FR	MEA	321 Syme	832-9222	Box 207, St. Pauls, NC
Dowdy, Jack Daniels			224 Turlington	TE2-9297	Box 705, Hillsboro, NC
Dowdy, Robert Lee	SR	EE	Bx 15235		13 E. Dr. Francis Pk., Jackson-ville, NC
Dowless, Chevalier Jackson, Jr.	FR	FR	313 Becton Bx 3781	TE2-9372	713 N. Chestnut St., Aberdeen, NC
Dowless, Victor Gerald	SR	PPT	Bx 565, Cary		Box 1033, Elizabethtown, NC
Downing, Billy Clark	SR	IE	A-14 MSH	834-8006	1428 Pine Valley Loop, Fayetteville, NC
Downing, Robert Warren	SO	IE	413A Bragaw Bx 15177	TE4-9757	1111 S. Hawthorne, Winston-Salem, NC
Doyle, Grady Medlin	FR	ME	102 Turlington		RFD 4, Zebulon, NC
Dozier, Casper Edwards	SO	AH	410A Bragaw Bx 15379		Rt. 2, Whitakers, NC
Dozier, Franklin Riley	SO	IE	15 Eanwell		South Mills, NC
Drake, Thomas Francis	FR	ATE	Box 3101	TE2-9447	421 Honeysuckle Hill, Lexington, NC
Dranikoff, David Jeffrey	SO	PSY	324 E. Park Dr.		18 Andover Dr., Syosett, NY
Draughon, Harold McDonald	JR	IE	130 Cox Ave.		Glory Rd., Zebulon, NC
Drewett, Howard Jackson, Jr.	JR	EE	211 Hawthorne Rd.	828-9143	945 N. Main St., Louisville, NC
Drinkard, Shafter Edward	SO	POM	2606 1/2 Clark Ave.	TE4-4801	2606 1/2 Clark Ave., Raleigh, NC
Driscoll, James Thomas, Jr.	FR	ME	129 Owen Bx 4419	TE2-9437	2501 McKillan Ave., Lumberton, NC
Drum, Rickey Clifton	SO	ASP	4245 Bragaw Bx 15406	TE4-9754	832 14th Ave., N.W., Hickory, NC
Drum, William Marvin	FR	MEA	254 Tucker		Box 282, Maiden, NC
Dunham, Irving	SR	IE	2212 Hope St.	TE2-4972	269-12 80th Ave., N. Hyde Pk., NY
Dwyer, Jerry Wendell	SR	ME	124 Bragaw Bx 15244		RFD 2, Box 166, Albemarle, NC
Drye, Robert Jackson	SR	ASF	126B Bragaw Bx 15256	TE4-9186	2400 Kendrick Dr., Charlotte, NC
Duane, Paul	FR	AGC	K-13 McKimmon Vill.	832-2696	K-13 McKimmon Vill., Raleigh, NC
Dunham, William Wendell	FR	EE	502 Tilden St.	TE2-5344	Rt. 1, Arden, NC
Luckett, Gordon Francis	FR	ME	Bx 4576	834-9836	40 Cleveland Ave., Asheville, NC
Luckworth, Charles Joseph	SO	POM	124 Bragaw Bx 15249		Rt. 1, Brevard, NC
Luckworth, Jerry Richard	SR	CE	212 Park Ave.	TE3-0545	105 Forest St., Morganton, NC
Ludley, Howard Jackson	SR	CHE	355 Tucker Bx 4782	TE3-0776	Rt. 1 Box 4, Swansboro, NC
Dudley, Hubert James, Jr.			364 Owen	834-9300	1509 Rose St., Goldsboro, NC
Duerck, Stephen Barrett	FR	TAT	3014 Churchill Rd.	TE3-0776	688 Lakeside Dr., Baldwin, NY
Duff, Joe Harold	SR	ASZ	2817-A Wade Ave.	TE2-6161	2817-A Wade Ave., Raleigh, NC
Duffy, Daniel Ray	SO	ARC	Bx 3049	TE2-9447	2146 Bailey Ave., Salem, VA
Duffy, Denis	FR	ME	2701 Kilgore Ave.	828-2129	316 Cotswold Ln., Cherry Hill, NJ

NAME	YR	CNCR	ADDRESS	TELEPHONE	HOME ADDRESS
Duffy, William Charles	FR	PM	311 Alexander	TE2-9349	104 S. William St., Goldsboro, NC
Duncan, Clarence Russell, Jr.	FR	PD	1821 Glenwood Ave.	TE2-9447	210 N. Laurel St., Lincoln, NC
Duncan, Joe Billy	FR	PD	1618 Hillsboro St.	TE2-9456	607 Sievers Cir., Roxboro, NC
Duncan, John Lewis	FR	ME	226 Tucker Ex 4697	TE2-9387	2605 Roxboro Rd., Durham, NC
Duncan, Julius Austin	FR	WT	117 Park Ave. Apt. B	833-8894	2213 Roswell Ave., Charlotte, NC
Duncan, William Hale	FR	MA	2512 Clark Ave.	TE2-4843	485 Parkview Dr., Burlington, NC
Duncan, William Morse	FR	MA	110 Beeton	TE2-9256	651 Central Ave., Raleigh, NC
Dunivant, John Robert	FR	MA	605 Lake Boone Tr.	TE2-2349	605 Lake Boone Tr., Raleigh, NC
Dunlap, George Heywood, Jr.	FR	MA	803 Wilmington Ter.	TE2-7058	616 Piedmont Way, Burlington, NC
Dunlap, Johnny Lawrence	FR	CE	Stadium Bx 4358	828-7087	5231 Olive Rd., Raleigh, NC
Dunlap, Arthur Roberts, Jr.	FR	MA	205 Bagwell Bx 3337	TE2-9185	601 S. Pine St., Rocky Mount, NC
Dunn, Albert Wayne	FR	MA	F-16 MSH	833-0734	206 Franklin St., Williamston, NC
Dunn, Wiley Ernest, III	FR	GS	Q-216 MSH	TE2-9447	Box 7424, Winston-Salem, NC
Dunn, William Phillip	FR	PM	3005 Watauga	TE2-9447	Rt. 1, Woodland, NC
Dunning, Charles Everett	FR	WT	7 Dixie Dr.	TE2-1183	nFD, Pantego, NC
Dunshae, Jason Keynes	FR	CE	703 N. Kimbrough St.	TE2-2467	Calle 8 bis 1554, Pereira, Colombia
Dunston, Kurt Whitman	FR	GS	Owen Ex 4486	TE4-8065	703 N. Kimbrough St., Raleigh, NC
Duplat, Marcel Louis	FR	TXT	130 Woodburn Rd.	TE4-8065	Rt. 1 Box 35, Pantego, NC
Durham, Billy James	FR	DEE	3509 Fayetteville Rd.	V48-8102	314 Crystal Sp. Dr., Hendersonville, NC
Durham, Hugh Thomas, Jr.	FR	ME	2 Beeton	TE2-7708	217 Lafayette Rd., Raleigh, NC
Dutton, Earl Langston	FR	POK	222 Hillcrest	TE2-7708	528 Ashland Dr., Greensboro, NC
Dutton, Hubert Langston	FR	TAT	304 E. Park Dr.	TE3-6960	2416 Sunset Dr., Tampa, FLA
Dwiggins, Donald Homer, Jr.	FR	ME	1066 Bragaw Ex 15221	TE2-7638	112 S. Thompson, Whiteville, NC
Dwore, Donald Jay	FR	AKC	208 Beeton Bx 3742	TE2-9334	Rt. 3 Box 91, Whiteville, NC
Dyson, Peter John	FR	GN	128 Bagwell	TE3-4044	1310 Lexington Ave., Schenectady, NY
Dyson, Ronald Lynn	FR	EE	Q-222 McKimmon Vill.	832-8642	Rt. 1 Box 234, Cary, NC
Dyson, William Lee	FR	DEE	215 Syme Bx 3547	832-9150	Rt. 1, Box 234, Cary, NC
Eagle, Eugene Octavius	FR	ME	1180 Bragaw Ex 15242	832-9150	109 W. Wyche St., Whiteville, NC
Eagles, Joseph Elliott	FR	AKI	1032 Nichols Dr.	TE2-9186	407 Bryan Blvd., Goldsboro, NC
Eakes, James Chandler, Jr.	FR	POK	15 Rosemary St.	TE2-8703	302 S. Tremont Dr., Greensboro, NC
Eargle, George Marvin	FR	ME	606 Dixie Tr.	828-5817	Rt. 8, Sanford, NC
Earley, Howard Edwin	FR	ME	1066 Bragaw Ex 15221	TE2-7638	142 N. 4th St., Carolina Beach, NC
Earlin, Lawrence Michael	FR	ME	208 Beeton Bx 3742	TE2-9334	1001 Weade Dr., Greensboro, NC
Early, Melvin Thomas	FR	ME	128 Bagwell	TE3-4044	Rt. 4 Box 194, Lenoir, NC
Earnhardt, John Wilbert, Jr.	FR	OME	Q-222 McKimmon Vill.	832-8642	56 Fox Ridge Rd., Sparta, NJ
Earp, William Henry	FR	CE	304 E. Park Dr.	TE3-6960	RFD 1 Box 215, Colerain, NC
Earwood, James Thomas	FR	CE	1180 Bragaw Ex 15242	832-9150	2619 Glenhaven Ln., Winston-Salem, NC
Eason, Charles Sherwood	FR	AKI	1032 Nichols Dr.	TE2-9186	40 Woodward Ave., Asheville, NC
Eason, Douglas Wilson	FR	POK	15 Rosemary St.	TE2-8703	Gatesville, NC
Eason, John Edward	FR	ME	606 Dixie Tr.	828-5817	Macesfield, NC
Eason, Ronald Reid	FR	ME	1066 Bragaw Ex 15221	TE2-7638	730 N. Blount St., Raleigh, NC
Eason, William Jarmom	FR	ME	208 Beeton Bx 3742	TE2-9334	RFD 2, Rockingham, NC
Easter, Kenneth Herbert	FR	ME	128 Bagwell	TE3-4044	207 Pollock St., Mt. Olive, NC
Eaton, Buddy	FR	CE	304 E. Park Dr.	TE3-6960	Rt. 2, Smithfield, NC
Eaves, Thomas Allen	FR	CE	1180 Bragaw Ex 15242	832-9150	3944 Vest Hill Rd., Winston-Salem, NC
Ebron, Gene Irvin	FR	CE	103 Tucker Bx 4618	828-5180	Rt. 6 Box 403, Greenville, NC
Eckard, Alan Lawrence	FR	CE	1100 Parker St.	828-5180	
Ecklin, Edward Corwin, II	FR	CE	315 Bagwell Ex 3381	TE2-9437	Rt. 2, Mocksville, NC
Eckstein, Gerald Leonard	FR	CE	Owen Ex 4427	TE2-9437	304 Stetson, Clinton, NC
Eddleman, Edwin Blaine	FR	CE	1324 Lutz Dr.	TE2-9437	Rt. 1 Box 62, Morehead City, NC
Edgar, Edward Penrose	FR	CE	Syme Bx 3537	TE2-9150	2365 Springs Rd., Hickory, NC
Edgerton, Eric Ray, Jr.	FR	CE	327 Syme Ex 3591	832-9222	2021 Wensley, Charlotte, NC
	FR	CE	306 Syme	TE2-9222	1816 Beverly Rd., Rocky Mount, NC
	FR	CE	306 Syme	TE2-9222	427 McRae Cir., Fayetteville, NC
	FR	CE	306 Syme	TE2-9222	1608 S. Cannon Blvd., Kannapolis, NC
	FR	CE	306 Syme	TE2-9222	24 W. Prentiss Ave., Greenville, SC
	FR	CE	306 Syme	TE2-9222	Rt. 1 Box 124, Kenly, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Edgerton, Gregory Elton	FR	NE	Bx 4809		10801 Warwick Blvd., Newport News, VA
Edgerton, Jerry Alan	SR	EE	4205 Western Blvd.	828-8879	Box 356, Goldsboro, NC
Edgington, Robert Barry			149 Owen Bx 4440		45 Gilchrist Ave., Ottawa, Ont. CAN
Edison, William Scott, Jr.	JR	TEE	2108 Sunnybrook Rd.	VA8-9609	2205 Wallingford Dr., Decatur, GA
Edmanson, Berrel Mueley	FR	AM	Bx 4470		Rt. 1, Bethel, NC
Edmanson, Mary Lynn	UN	GS	107 Shepherd St.	TE2-6221	Box 291, Pinetops, NC
Edwards, Arthur Ray	SR	ARC	331 Syme Bx 3595		Box 175, George, NC
Edwards, Charles Dean	SO	ATD	1718 Hillsboro St.	VA8-4464	Sparta, NC
Edwards, Dennis Ray			260 Brooks Ave.	TE2-4331	Box 156, Macclesfield, NC
Edwards, George Patrick	FR	CL	2228 Hillsboro St.		Rt. 1, Eagle Springs, NC
Edwards, James Wayne	SO	NEA	201A Bragaw	TE2-9185	Stanley Dallas Rd., Stanley, NC
Edwards, John Lester, Jr.	MR	FS			Rt. 1, Burnlevel, NC
Edwards, John Marshall	JR	CHE	120D Bragaw		1800 Progress Ln., Charlotte 5, NC
Edwards, Jonnie Essil	FR	TXT	Tucker Bx 4730	TE2-9387	Rt. 1 Box 169, Roaring River, NC
Edwards, Jonas David	SO	IA	127 Hawthorne Rd.	834-5838	Box 413, Pinetops, NC
Edwards, Leonard Wayne	SO	ASE	5 Berry Ex 4338	TE2-9350	Rt. 1, Nashville, NC
Edwards, Marion Lee	JR	EE	Bx 3504	TE2-9288	401 Fenwick Dr., Falls Church, VA
Edwards, Melvin Thomas	SO	EE	Maynard Rd., Cary		Rt. 8, Winston-Salem, NC
Edwards, Michael Robert	UN	GS	2316 Hillsboro St.	TE3-5587	132 Kendal Mill Rd., Thomasville, NC
Edwards, Richard Nathaniel, Jr.	JR	NE	1826 White Oak Rd.	VA8-7578	1826 White Oak Rd., Raleigh, NC
Edwards, Robert Dale	FR	FPT	45 Tucker Bx 4796	832-9186	RFD 2, Box 376, Washington, NC
Edwards, Steve O'neil	FR	ME	329 Tucker Bx 4760		Rt. 2 Bx 105, Ahoskie, NC
Edwards, Tommy Charles	MR	MB	209 Burlington Bx 4238	TE2-9297	101 W. Franklin Ave., Gastonia, NC
Edwards, Walter Ronnie	FR	AKA	231 Bagwell	832-9131	107 W. 3rd St., Plymouth, NC
Edwards, Walter Dale	SO	TXT	405B Bragaw Bx 15162	VA8-2257	2216 Gibson Ave., Wilmington, NC
Edwards, Wayne Wright	SR	TXT	1915 Glenwood Ave.		Rt. 4 Box 2686, Red Springs, NC
Edwards, William Eugene	SO	EE	124 Daisy St.		213 W. Sixth St., Winston-Salem, NC
Edwards, William Henry, Jr.	FR	EE	P-122 McKimmon Vill.	TE3-6965	1714 Piedmont Way, Burlington, NC
Edwards, William Norman	FR	EE	Bx 4462	TE2-9410	Box 1051, Burlington, NC
Edwards, William Sanford	MR	PSC	H-12 McKimmon Vill.		Rt. 2, Middlesex, NC
Efford, William Daniel	FR	NE	Bx 4514		3800 Carmel Acres, Charlotte, NC
Eggleston, Thomas Wayne	FR	TAT			Rt. 1 Box 159, Star, NC
Eichenwald, Carlos Eduardo	SR	TO	3234 Gold	TE2-9263	Calle 16 No. 6-10, Cali, Valle, COL
Eide, Richard Lyle	MR	AGL	706 Powell Dr.	TE2-1472	PR 1, Rushmore, MINN
El Agadi, Mohamed Nasser			203 Hillsboro YMCA		13 Albi St., Saba Pacha, Ramleh, Alexandria, Egypt
Eisenberg, Robert Cree	JR	BAC	N-13 MGR	TE4-5898	Oregon, MO
Elam, Lucie Loddie	SR	LEW	Fairview Rd.		310 Spring St., Louisville, NC
Elbridge, Kenneth Lorrell	SO	AL	Syme		Rt. 1, Newton Grove, NC
Elia, Henry F.	SR	ARC	1821 Glenwood Ave.		Box 589, Peekskill, NY
Elisaf, Michael Granam	FR	CE	Tucker Bx 4666	TE2-9367	1047 Manor Ave., Bronx, NY
Elkin, Kenneth James	FR	FOR	116 Hawthorne		105 Bull Mtn. Rd., Asheville, NC
Elkins, Roscoe Edison, Jr.	MR	AKA			RFD 2, Clarkton, NC
Elks, Dennis Hall	JR	MB	Bx 14151		401 Cedar St., Roanoke Rapids, NC
Ellen, William Jeffers	FR	FOR			Rt. 4, Raleigh, NC
Ellen, William Cordia	FR	CE	Bx 4554		Rt. 3, Rocky Mount, NC
Ellen, ES, Jess Blane	JR	CHE	2722 Fairview Rd.	VA8-8121	2722 Fairview Rd., Raleigh, NC
Eller, Conrad David	JR	TAT	6032 Dixie Trail		Millers Creek, NC
Eller, Joseph Cox	JR	LE	211 Alexander Ex 4144	TE4-9746	Rt. 1 Box 34, Purlear, NC
Eller, Vencie Massengill	UN	TO	2223 Dorsett	TE4-9731	2223 Dorsett St., Raleigh, NC
Eller, Wayne Clark	FR	EE	Bx 3784	TE2-9372	427 E. Innes St., Salisbury, NC
Ellington, Stewart Macon	SR	EE	Syme Bx 3593	832-9222	Rt. 3 Box 71-C, Henderson, NC
Ellington, William Woolcott, Jr.	SR	EE	107 Alexander Ex 4106	TE2-9257	2015 Arnold Dr., Charlotte, NC
Ellinwood, George Holloman	JR	EE		TE2-9442	1601 N. College Pk. Dr., Greensboro, NC
Elliot, Donald Radford	FR	EE	101 Bagwell	TE2-9414	1002 Montlieu Ave., High Point, NC
Elliot, Howard Coleman, Jr.	SO	MB	225 Shepherd St.	TE4-1289	823 Buffalo St., Shelby, NC
Elliot, Larry Thomas	FR	MT	Tucker Bx 4789	TE2-9323	Box 66 Rt. 2, Virgilina, VA
Elliot, Shirley Green	JR	TAT			Rt. 3, Rutherford, NC
Elliot, William Joseph, Jr.	FR	EE	52 Owen Ex 4592		Rt. 3, Rutherford, NC
Ellis, Blair Campbell	JR	CHE	544 Harvey St.	TE2-3239	503 Harvey St., Raleigh, NC
Ellis, Lavid J.	FR	ASV	Tucker Bx 4771	TE2-9323	2907 N. Kensington St., Arlington, V
Ellis, Mackey William, Jr.	SR	CE	3260 Hillsboro St.		Rt. 1 Box 358, Henderson, NC
Ellis, Mackey	JR	RFA	2265 Bragaw		1201 Bryden Rd., Columbus, OHIO
Ellis, Mackey	JR	NFA	Bx 4107	TE2-9257	2850 Biltmore Ave., Montgomery, ALA
Ellis, Larry Lee	PRO	MB	N-28 McKimmon Vill.	TE4-0375	N-28 McKimmon Vill., Raleigh, NC
Ellis, Mark Leslie					Rt. 4 Box 160E, Wilson, NC
Ellis, Mark Leslie	FR	ARC	131 Syme Bx 3531	832-9288	3633 Drayton Rd., Fayetteville, NC
Ellis, Sharon Wentworth	UN	GS	306 Chamberlain		Rt. 2, Advance, NC
Ellis, Stephen Jimmy	FR	EE	Owen Bx 4536		124 Peach St., Shelby, NC
Ellis, Amuziah Walter	FR	ASV	Syme Bx 3547	832-9150	Rt. 2 Box 380, Goldsboro, NC
Ellis, David Richard	JR	MB	Syme Bx 3577	832-9222	Rt. 2, Mocksville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Alaslie, Norman Ed	10	OE	1620 Hillsboro	TE4-9378	2041 W. Grove, Harris Isl., Miami Beach 41, FLA
Alford, Ella Grace	JR	MED	4113 Rowan St.	TE4-6912	4213 Rowan St., Raleigh, NC
Alford, Henry Lewis, Jr.	SR	ME	Westover Park Apts.		Westover Park Apts., Durham, NC
Alford, Robert Bruce, III	JR	IV	Fourth Ex 3115	TE2-9159	1421 N. Ingleswood St., Arlington, VA
Almond, James Thomas	SO	ME	3049 Swann Dr.	TE4-4078	3709 Swann Dr., Raleigh, NC
Alpert, Daniel Kenneth	JO	CHE	416 C. Euclid Ave.		211 East St., Waynesville, NC
Angard, James Watson	FR	MEA	124 Turlington	834-9279	1 Gray St., Gastonia, NC
Angiano, Samuel J. M.	OR	MED	6-14 McKimmon Vill.		2348 Arlington, Columbus, OHIO
Angie, John Norman	SO	ME	5825 Fayetteville Rd.		Rt. 5 Box 77-B, Asheville, NC
Anten, Harold Solomon	JR		3414 Hillsboro	V48-9181	40 Westover Dr., Asheville, NC
Ansore, Ernest Emory, Jr.	SO	IE	325 Bragaw		417 Whealon Rd., Hampton, VA
Antique, Jean Claude	SO	INT	Alumni Bldg. 202	TE2-9322	Montaus Calizas 330, Mexico, D.F.
Antony, Michael David	FR	LE	327 Owen	TE4-9300	Rt. 1 Boatclub Rd., Belmont, NC
Entreklin, Archie Fred, Jr.	FR	AGI	Owen Ex 4565		Rt. 1, Huntersville, NC
Arm, Michael Henry	MR	APV	1429 Park Dr.	834-2886	220 Dorow Ave., Edgerton, WIS
Arner, Joseph Russell	SR	AEI	2419 Kilgore Ave.	TE4-4904	Rt. 1, Fairbluff, NC
Epley, Phillip Isaac	SO	EE	104 Fourth Ex 3114	TE2-9159	205 Carbon City Rd., Morganton, NC
Eraslan, Arsev Husnu	GR	ME			
Art, Michael David	SO	RFA	1054 Bragaw Ex 15219	TE4-7428	31 East 2nd St., Lansdale, PA
Erickson, John Eugene	JR	AS			88 S. French Broad, Asheville, NC
Erikson, Thomas Fredrick	JR	ME	235 Turlington Ex 4261	TE2-9297	Rt. 5 Box 709, Hickory, NC
Escallon, Carlos	JR	LE	Ex 5732		Ave. 29 #10-21, Bogota, Colombia
Esewoy, Yelma	GR	EE	1021 W. Peace St.		Kirsehi, Turkey
Eshelman, David Richard	SO	EE	Ex 5667	TE4-9378	Rt. 5 Box 92A, Greenwood, SC
Esbridge, Harold Eugene	MR	APV	405 Gardner St.	828-4940	214 Fern St., Shelby, NC
Essex, Jacob Kermit, Jr.	FR	IE	Bx 4753	TE2-9323	Rt. 2, Clemmons, NC
Essex, Judson Paul, Jr.	JR	IE	Box 5334	TE3-3948	2634 Forest Dr., Winston-Salem, NC
Essick, Casper Reid	JO	CBC	Owen Ex 4589		Rt. 10 Box 40, Lexington, NC
Estrada, Jose Andres	FR	SSC	101 Gold		Agachu 454, Huara, Peru
Estridge, Johnny Ray	JR	EL	1-25 Nun	V48-9929	Box 306, Ansonville, NC
Fairchild, William Royal	JR	ME	122 Faircloth	TE2-2270	122 Faircloth St., Raleigh, NC
Fairchild, William Royal	JO	ME	334 Turlington Ex 4264	TE2-9297	Rt. 1, Bethel, NC
Fairchild, William Royal	MR	LE	Rt. 1 Cary	833-2339	Box 178 Rt. 1, Cary, NC
Fairchild, William Royal	FR	AEI	1111 Bragaw Ex 4369		Rt. 2 Box 387, Trenton, NC
Fairchild, William Royal	FR	EE	132 Owen Ex 4427	TE2-9437	Bogue Sound, Morehead City, NC
Fairchild, William Royal	UN	GS	700 Hamilton Rd.	TE2-2618	700 Hamilton Rd., Raleigh, NC
Fairchild, William Royal	JR	ME	415 Bragaw		Leland, NC
Fairchild, William Royal	FR	ME	305 Watauga Ex 3041		1000 Sycamore St., Kinston, NC
Fairchild, William Royal	SR	ME	Alexander Bx 4159	TE4-9746	RFD 3, Selma, NC
Fairchild, William Royal	SR	ME	8 Maiden Lane	TE2-5818	8 Maiden Lane, Raleigh, NC
Evans, Joseph Browne, Jr.	FR	LE	Bx 4548	834-9836	Cerro Gordo, NC
Evans, Morris	FR	TO	126 Bagwell Bx 3326	TE4-9219	606 S. William St., Johnstown, NY
Evans, Robert Charles, Jr.	JR	ME	2303 Clark Ave.		409 Carolina Ave., Hazelwood, NC
Evans, Robert Charles, Jr.	FR	EE	115 Tucker		98-A Schofield Cr., Fort Riley, KAN
Evans, William Tatum	FR	ME	2401 Reavis Rd.	TE4-6588	4201 Reavis Rd., Raleigh, NC
Everett, David Caldwell	FR	TAT	Bx 4786		Rt. 1, Box 178, Bath, NC
Everett, James Lockhart	FR	ME	232 Tucker	TE2-9387	215 King St., Laurinburg, NC
Everett, Marvin McHenry	MR	ME	803-C Daniels St.	832-5548	Robersonville, NC
Everett, Oscar Leon	SO	CE	340 Tucker	210 Ben Gunn	Rd., Bayside, VA
Everhart, Buddy Sherrill	FR	LE	1410 Franklin Rd.	828-7158	705 Rosedale, Thomasville, NC
Fairchild, William Royal	SR	ME	3415 Bragaw Ex 15134		10 Irvin St., Shelby, NC
Fairchild, William Royal	SR	ME	2410 Everett Ave.	TE2-5607	215 Wood Dale Dr., Wilmington, NC
Fairchild, William Royal	SO	ME	130 Bagwell Bx 3330	TE4-9219	3827 S. Lake Dr. S.W., Roanoke, VA
Fairchild, William Royal	JO	ME	Bx 5566	TE2-9102	246 N. Canterbury Rd., Charlotte, NC
Fairchild, William Royal	JR	GR	Bx 3577	832-9222	1600 Murphy St., Goldsboro, NC
Fairchild, William Royal	FR	ME	1111 Bragaw Ex 4369	TE2-6159	903 Parrott Ave., Kinston, NC
Fairchild, William Royal	FR	ME	1912 Sunset Dr.	TE2-2912	1912 Sunset Dr., Raleigh, NC
Fairchild, William Royal	FR	ME	809 Edmunds	V48-3186	415 S. Main St., Geneva, NY
Fairchild, William Royal	JO	ME	3415 Bragaw Ex 15130		820 Westover Ave., Winston-Salem, NC
Fairchild, William Royal	JR	ME	315B Bragaw Ex 15130		1849 Faber St., Fayetteville, NC
Faircloth, Weldon Wright	JR	ME	4143 State Coll.		Rt. 1, Autryville, NC
Faires, Charles Calvin	FR	ME	312 Alexander Bx 4175		Rt. 3, Gastonia, NC
Faires, Charles Calvin	FR	ME	4143 Bragaw Ex 15130		238 2nd Ave., SE, Hickory, NC
Faires, Wade Elias, Jr.	FR	ME	225 Tucker Ex 4700	TE4-9828	Union Rd., Rt. 3, Gastonia, NC
Faison, Charles Carey	FR	ME	113 Cox Ave.	832-1176	113 Cox Ave., Raleigh, NC
Fakler, Anne Louise	FR	ME	810 Glenwood Ave.	828-3765	810 Glenwood Ave., Raleigh, NC
Fakler, Fay Frances	FR	ME	810 Glenwood Ave.	V48-3765	810 Glenwood Ave., Raleigh, NC
Fales, Carl Lynnwood, Jr.	FR	ME	2325 Grant Ave.	TE4-0806	2325 Grant Ave., Raleigh, NC
Falkner, Horace Eugene	FR	ME	1111 Bragaw Ex 4369	TE4-6164	1721 Orange St., Wilmington, NC
Falkner, Horace Eugene	FR	ME	1111 Bragaw Ex 4369		804 E. Montgomery, Henderson, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Falzarano, Peter Anthony	SO	RFA	103 Berry		311 Railroad Ave., Stirling, NJ
Fang, Ching Seng	MR	AGE	121 Syme		17 Lane 247, Taipei, Taiwan
Farless, Lathan Howard	SO	ME	41 Tucker Bx 4794	TE2-9237	Star Rt., Joleman, NC
Farley, Jacob Forrest	FR	TXT	210 Gold	TE2-9263	914 Elmhurst, Winston-Salem, NC
Farlow, Wilbur Gary	SO	ARC	1629 Millboro	834-4378	237 Spring Lane, Sanford, NC
Farlowe, Joanne Tripp	UN	GS	807 1/2 Harvey St.	TE2-1915	807 1/2 Harvey St., Raleigh, NC
Farmer, Berikwood Malcolm	MR	AGC	Rt. 1, Cary	TE2-7286	Ringold, VA
Farmer, Charles Thomas			216 Owen Ex 4471	TE2-9410	255 Hillcrest Dr., Goldsboro, NC
Farmer, Fred Smith	SO	ASE	2209 1/2 Hope St.	TE2-3244	Rt. 1, Newland, NC
Farmer, George Leonidas	SR	GS	508 W. Garner Lp. Rd.	TE2-4058	508 W. Garner Lp. Rd., Raleigh, NC
Farmer, John Beaman, Jr.	SR	ARC	Bx 3128	TE2-9159	Box 3, Elm City, NC
Farmer, John Gavin	SO	AH	508 W. Garner Lp. Rd.	TE2-4058	508 W. Garner Lp. Rd., Raleigh, NC
Farr, Isaac Coleman	FR	CE		TE2-9410	Box 156, Spring Hope, NC
Farror, William Daugherty	SO	ASZ	2901 Anderson	TE2-9410	2901 Anderson Dr., Raleigh, NC
Farrow, Philip McDougle	FR	ARC	329 Becton Bx 3797	TE2-9372	3420 Shamrock Dr., Charlotte, NC
Farthing, Hal Buckner	SO	NE	347 Tucker	TE2-9323	1134 Raynor St., Durham, NC
Fasanella, Edwin Lane	SO	PY	Rt. 1, Cary		Rt. 1 Box 162, Roaring River, NC
Fatkin, Thomas George	UN	GS	104 S. Lawson	832-7743	Rt. 2, Albemarle, NC
Faulk, Jonathan Thomas		AGI	204 Gold Bx 2317		Rt. 6, Sanford, NC
Faulk, Richard Harvey	SO	ATE	204 Gold Ex 3216	TE2-9263	Rt. 6, Sanford, NC
Faulkner, Fred Eugene	MR	CHE	Rt. 1, Cary	TE4-0066	55 Haw Creek Rd., Asheville, NC
Faulkner, Roger Atwood, Jr.	SR	FY	1027 Vance St.	828-8321	55 Haw Creek Rd., Asheville, NC
Faust, Eric Milton	UN	GS	10 Enterprise St.	TE2-0435	801 Maple Ave., Salisbury, NC
Favor, Charles Henry	SO	ME	124A Bragaw Ex 15251	TE2-9180	3140 Selwyn Ave., Charlotte, NC
Faw, Avery Lee	FR	MEA	Alexander Bx 4155		Warrensville, NC
Fawcett, Jeffrey Curtis	SO	UN	402C Bragaw	TE4-9754	397 Mashie Lane, Orlando, FLA
Featherstone, Dennis Keith	FR	FOR	119 Tucker Bx 4630	TE2-9367	467 Cathed Rd., Charlotte, NC
Feiner, Leonard Charles	JR	PY	25 Syme		2414 Fry St., Greensboro, NC
Feistmann, Peter Henry	SO	LD	125 Cox Ave.		238 Midland Dr., Asheville, NC
Feldman, Moshe	SO	TXT	312B Bragaw		Pardo Y Aliaga 686, San Isidro Lima, Peru
Feldman, William Max	FR	ME	248 Tucker	TE2-9387	1A Pinewood Ct., Burnt Hills, NY
Feltner, Richard Lee	GR	AGC	J-12 MSH	834-5837	RR 1, New Ross, IND
Felton, Gary Wilson	SO	MEA	222 Park Ave.		Winton, NC
Felton, Henry Norfleet	SO	MEA	4-306 McKimmon Vill.	VA8-3047	1202 Greenville Blvd., Greenville, N
Felte, John Edward	JR	EE	100 Horne St.	828-3042	100 Horne St., Raleigh, NC
Fenton, John Franklin	JR	EE	519 Gardner St.	TE2-2189	4411 Reno Rd., N.W. Wash., 8, DC
Ferebee, James Harrison	FR	AGI	260 Tucker Bx 4727	TE2-9387	Shawboro, NC
Fergus, Von Eldridge	SO	MEA	301 berry Ex 4321	TE2-9363	2903 Wrightsville Ave., Wilmington
Ferguson, Alfred William	JR	CE	336 Owen Ex 4550		
Ferguson, Donald Blake	JR	EE	122D Bragaw		520 Oak Summit Rd., Winston Salem, NC
Ferguson, James Marshall, Jr.	SR	AMA	409 Wayne Dr.	834-0655	409 Wayne Dr., Raleigh, NC
Ferguson, James Rufus	SO	ME	205C Bragaw Bx 15059	TE2-9185	Lilestown, Taylorsville, NC
Ferguson, James Sanders	JR	WT	H-14 MSH	828-6110	Rt. 8, Sanford, NC
Ferguson, John Thomas	FR	ENG	215 Becton Bx 3749	TE2-9334	112 Harmon, Painesville, OHIO
Ferguson, Leland Greer	JR	MEA			Rt. 3, Winston-Salem, NC
Ferguson, Lenard N.			1422 Duplin Rd.	828-2595	1422 Duplin Rd., Raleigh, NC
Ferrand, Jaime F.	FR	TXT	207 Alumn Bldg.		Los Robles 559 S.I., Lima, Peru
Ferrari, Thomas Enrico	JR	FOR	324 Turlington Bx 4286		24 Clearview Dr., Pittsford, NY
Ferreira, Oscar Rache		TX	518 Cleveland St.	TE3-1565	Prsia Engeuio Jardim 18, Rio do Janeiro
Ferrell, Excell Osborne	FR	EE	Bx 3044	TE2-9132	Rt. 4 Box 768, Durham, NC
Ferrell, Janet Marion	FR	BO	4205 Rowan St.	VA8-8645	4205 Rowan St., Raleigh, NC
Ferrell, Larry Joseph	SO	MEA			Box 232, Clayton, NC
Ferrell, William Earl					Rt. 1 Box 167, Wilson, NC
Ferrill, Mitchell Davis	GR				Rt. 1 Box 2815, Lurain, NC
Fesperman, William Forrest, Jr.	SO	CH			Rt. 2, Albemarle, NC
Fetherbay, Wayne David	FR	ME	349 Tucker	TE2-9323	137 Shuping St., Morganton, NC
Fidler, Kermit Don	FR	MED	321 Owen Ex 4536	834-9300	2640 Royston Rd., Charlotte, NC
Fields, Jorman Wade	SO	ME	319B Bragaw Bx 15138	834-6548	2226 Meadowood Rd., Fayetteville, NC
Fincher, Edward Gerald	SR	FY	310 Gold ex 3234		Rt. 2 Box 835F, Charlotte, NC
Fincher, Otis Denson	DR	CS	3302 Buffalo Rd.	834-4184	216 W. Oak St., Oxford, ALA
Fincher, Robert Charles	FR	ME	23 Syme Bx 3619	TE2-9421	111 Spencer Ave., High Point, NC
Finger, Donald Edgar	JR	TXT	200 Jones-Franklin	VA8-9987	200 Jones-Franklin, Raleigh, NC
Finger, Michael Rockell	SR	IE	2317 Grant Ave.	833-3779	751 Lansdowne, Charlotte, NC
Pink, Coy Dean	JR	CHE	201 Turlington Bx 4232	TE2-9297	Box 93, Faith, NC
Finney, Jerry Wilborn	FR	IE	361 Owen Bx 361	TE4-9300	Box 405, Jonesville, NC
Fish, Dorsey Herbert	JR	ABA			Rt. 1, Willow Springs, NC
Fishbein, Jonathan Abraham	SO	MEA	119 Turlington Ex 4216	834-9279	304 Stuart Ave., Fayetteville, NC
Fishburne, Willard Brooks	SO		126 Syme, Bx 3526		83 Tacoma Cir., Asheville, NC
Fisher, Herbert Andrew	SR	ME	200 Brooks Ave.	TE2-4331	3703 Konnoak Dr., Winston-Salem, NC
Fisher, James David	SO	CE	121 Turlington Bx 4218	834-9279	3911 McArthur Rd., Winston-Salem

NAME	YR	CURP	ADDRESS	TELEPHONE	HOME ADDRESS
Fischel, Philip Cornelius, Jr.	JE	JB	114 Turlington Bx 4211	TE4-9279	Rt. 9 Sides Rd., Winston-Salem, NC
Fisher, James E. Jr.	JE	JB	209 Turlington		506 E. Guilford St., Thomasville, NC
Fisher, Jerry Bentley	JA	ME	Bx 15406		Rm. 7 Box 513F, Charlotte, NC
Fisher, James Willard	NR	ME	Bx 15403	TE2-9129	Mt. Pleasant, NC
Fisher, Harry Good	SC	FOR	106C Bragaw	TE4-7428	Candor, NC
Fisher, James Bennett	E		317 Syme Bx 3581	832-4242	18 White Oak Rd., Asheville, NC
Fisher, James Ernest	SR	ME	423D Bragaw	TE2-0077	43 Burnsville Hill Rd., Asheville, NC
Fisher, James Morgan	FR	TKT	362 Tucker		62 Franklin St., Roanoke Rapids, NC
Fisher, John Lawrence, Jr.	SR	ME	140 Bragaw Bx 15390		2113 W. Church St., Selma, ALA
Fisher, John Reed	SR	ME	P-311 MSH		P-311 MSH, State College, Raleigh, NC
Fisher, Kay Richard	JA	ME	1511 Ridge Rd.	VAB-9278	830 Marguerite Dr., Winston-Salem, NC
Fitzgerald, Robert	FR	CEC	225 Tucker Bx 4696	TE2-9387	962 Quander Rd., Alexandria, VA
Fitzula, Ronald Andrew	JA	CEC	413B Bragaw Bx 15181	TE4-9757	2207 S. Ashe St., Greensboro, NC
Fitch, Lowell Haines	FR	ME			Mason Hill Rd., Sherborne, MASS
Fitchett, Gail Culver	FR	MEA	2208 Garden Pl.		312 W. Salisbury St., Pittsboro, NC
Fitzsimmons, William Morgan, II	JA	ARC	A-26 McKimmon Vill.	828-4020	317 W. Main St., Sanford, NC
Fitzgerald, Bernice Hubert	JA	ME	2941 Winchester Rd.	TE2-5779	1800 Bentley Pl., Charlotte, NC
Fitzgerald, James Harris, Jr.	FR	ME	228 Owen Bx 4483		151 Rosedale Cir., Winston-Salem, NC
Fix, Thomas Evans	JA	AMA	314 Turlington Bx 4276	TE2-9192	1055 Feltz Dr., Winston-Salem, NC
Flannagan, Dennis Broadus	JA	AMA	E-3A Cammeron Ct.	828-2106	E-3A Cameron Ct. Apts., Raleigh, NC
Flanagan, Martha Sue	JA	A	2208 Garden Pl.	VAB-5322	Box 142, Farmville, NC
Fleming, Robert	SR	ME	2702 Murchison Rd., Fayetteville, NC		2702 Murchison Rd., Fayetteville, NC
Fleming, John	JA	IATO	1720 Hillsboro St.	VAB-9200	Box 469, Henderson, NC
Fleming, Kellogg Davis	SO	FL	115 Astanga		612 Harvey St., Raleigh, NC
Fleming, Robert Fuller	FR	ARC	114 Astanga Bx 3316	TE2-9447	Rt. 2 Box 319, Henderson, NC
Fleming, Robert James	SR	ME	612 E. Academy St.	MU7-4745	612 E. Academy St., Fuquay Sprs., NC
Fleming, Roger Alden	JA	CHE	1211 Currituck Dr.	833-4579	1990 Ellis Ave., Bronx 72, NY
Fleming, Ronald Cecil	SO	ATI	16 Stadium Bx 4351		Scotland Neck, NC
Fletcher, Fred, Jr.	FR	EE	204 Becton	TE2-9334	3001 Fairview Rd., Raleigh, NC
Fletcher, James Theodore	SO	ATL			Rt. 4, Elizabeth City, NC
Flinchum, Earl Thomas	FR	CE	9 Berry Bx 342	TE2-9350	Box 217, Walnut Cove, NC
Flora, John Wesley	SO	CE	1906 A. South St.	TE4-5963	3109 Arlington Pl., Portsmouth, VA
Florence, James Seawright, Jr.	SO	EE	6214 Brooks Ave.	828-5888	6214 Brooks Ave., Raleigh, NC
Floresman, George	JA	ME	Coll. YMOA	TE2-9339	RH2, Hamilton, Ontario, Canada
Flowers, Gerald	FR	EE	nt. 1, Cary	834-1308	5985 Seesh Daley, Taylor, MICH
Flowers, Larry Edward	JA	ME	210 Tucker Bx 4683	TE2-9387	Rt. 2, Four Oaks, NC
Floyd, Burton Rubush, Jr.	SR	FOR	122B Bragaw Bx 15248		346 Magnolia Ave., Buena Vista, VA
Floyd, Robert Guy	JA	AMA	209B Bragaw		200 Vance St., Roanoke Rapids, VA
Fluck, Richard Conrad	JA	ARC	3430 Redbud Lane	TE2-7093	Rt. 7 Box 377, Salisbury, NC
Fogarassy, Peter Van	SR	RPA	16 Enterprise		64 Emerson St., New Haven, Conn
Folger, Arthur Holmes	SR	CHE	312D Bragaw Bx 45333	TE4-9253	Bluefield, W. VA.
Folb, Franklin Miller		MED	21 Enterprise St.		1164 S. Hawthorne Rd., Winston-Salem, NC
Folsom, Clifton Ashley	FR	ENG	Owen Bx 4558	TE4-9300	Box 244, Bailey, NC
Forbes, Alfred Archibald III	SR	MEA	4205 Western Blvd.	TE2-6190	Rt. 1 Box 49, Greenville, NC
Forbes, James Wade	SO	AGI	363 Tucker Bx 4790		Rt. 1, Brown Summit, NC
Forbes, Tran Lecurtis			Owen Bx 4495		Shawboro, NC
Ford, David Maxwell	JA	TKT	3207 Hillsboro St.	834-3561	1110 Fairfield Dr., Gastonia, NC
Ford, Michael James	JA	FFT	Bx 4495	TE2-9387	1509 South St., Roanoke Rapids, NC
Foreman, Clay Bertrand	SR	FOR		834-1411	1114 Riversham Rd., Elizabeth City, N
Foreman, Bill Woodley	FR	FOR	205 Tucker Bx 4678		1207 Riverside Ave., Elizabeth, NC
Forney, Charles Daniel	SO	NE	409A Bragaw	TE4-9757	W. Main St., Lenoire, NC
Forney, Roy Winston	JA	CE	179 Owen Bx 4424		Rt. 2 Box 233, Greenville, NC
Forrest, James Sherwood	JA	ME	118A Bragaw Bx 15790		E. King St., Kings Mtn., NC
Forrest, Lewis Conrad, Jr.	JA	AED	208 Fourth Bx 3126	TE2-9159	Rt. Box 33, Newport, NC
Forrest, Thomas	FR	AGI	115 Owen Bx 4410	832-9115	Rt. 1 Box 352, Ayden, NC
Forshaw, Thomas	FR			TE2-9237	1425 Scotland Ave., Charlotte, NC
Forsyth, G. Alfred	SR	PSY	305 White Bx 3229		426 Jefferson Ave., Avon-by-the-Sea, NJ
Fort, Henry Mills	FR	ME	321 Owen Bx 4536	834-9300	2111 Highland St., Charlotte, NC
Fort, Stephen Ross	JA	WT	2512 Clark Ave.	TE2-4843	Box 695, Clarkton, NC
Foster, George Philip	JA	ME	5 Dixie Trail	TE2-9927	1119 Melrose St., Winston-Salem, NC
Foster, George Randolph	JA	CHE	202C Bragaw Bx 15261		3139 Selwyn Ave., Charlotte, NC
Foster, Joseph Weldon	FR	ENG	347 Owen		113 Brinkley Pl., Plymouth, NC
Foster, Judith Vee	FR	ARC	120 Ashe Ave.	TE2-5346	Rt. 1 Bx 1052, Sanford, NC
Foster, Kent Bernard	JA	EE	208D Bragaw Bx 15274		Rt. 1 Box 323, Concord, NC
Foster, Robert Gilmer, Jr.	JA	NE	111 Brooks Ave.	TE2-4608	Rt. 2 Box 230, Kinston, NC
Foster, Sally Kay	JA	FMN	W&L Trailer Haven		Box 382, Taylorsville, NC
Foster, Thomas Allen	FR	NE	628 E. Franklin St.	TE3-7865	628 E. Franklin St., Raleigh, NC
Fountain, William	JA	ASW	142C Bragaw		1005 Harvey St., Raleigh, NC
Fourie, Joseph Geparik	FR		417 W. Durham Rd.	HO7-9354	417 W. Durham, Cary, NC
Foushee, Caviness Banks, Jr.	JA	AGI	Syme Bx 3621	TE4-9421	Rt. 1, Timberlake, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Foushee, John Calvin	JR	CNE	208 Bagwell	TE2-9131	534 Sunset Dr., Sanford, NC
Foust, Michael Ronald	SO	CH	410b Bragaw Bx 15380		Rt. 1, Franklinville, NC
Fowler, David Michael	SR	MED	P-212 MSH		1020 Palmetto, Greensboro, NC
Fowler, Douglas Lane	FR	ENG	161 Owen Bx 4452	832-9115	2907 Partning St., Durham, NC
Fowler, Edwin Douglas	FR	CE	252 Tucker Bx 4719	TE2-9387	2906 Broad St., Durham, NC
Fowler, Harold William	SO	EE	425B Bragaw Bx 15203		Rt. 1, Bryson City, NC
Fowler, Michael Francis	FR	ARC	Watauga Bx 3040	TE2-9132	Box 466, Cliffsade, NC
Fowler, Richard Salisbury	SR	ME	3414 Hillsboro St.	828-9181	1502 Bevins St., Durham, NC
Fowler, Thomas Hackler	FR	CEC	Bagwell Bx 3310	TE4-9119	1815 Robin Hood Rd., Winston-Salem, NC
Fowlkes, Edward Eynum, II	MR	EST			105 E. Battle Ave., Tarboro, NC
Fox, Charles Eugene	JR	TAT	602 Dixie Trail	828-9528	107 Fox St., Morganton, NC
Fox, Charles Gates	SO	ABP	Rt. 1, Cary	H07-9395	Rt. 1, Cary, NC
Fox, Edwin Heritage	FR	EE	157 Owen Bx 4448	932-9115	601 W. 5th St., Siler City, NC
Fox, Joseph A.	GR	PP	N-26 MSH		Pulasid, MISS
Fox, Leon Marshall	SO	MEA	229 Bagwell Bx 3361		1312 Oxford Dr., Wilmington, NC
Fox, Reagan Hamilton	SO	FOR	515 Florence St.	TE2-0868	515 Florence St., Raleigh, NC
Foxworth, Robert Lawrence	SO	EE	311 Syme	832-9222	69 Elm St., Summit, NJ
Fox, John Frank	SR		301 Bagwell	TE4-9151	5904 16 Ave. NW, Bradenton, FLA
Franks, Richard Ray	MR	GN	309 Forest Rd.	833-6431	Rt. 1, Lyman, NEB
Frame, Wesley Booth	FRO	LA	Box 124, Cary	467-1432	659 Davis Ave., Staten Is., NY
Francis, John Ervin	FR	GS	Bx 4733	TE4-9828	Rt. 1 Box 159, Harmony, NC
Francis, Joseph Herbert	SR	AMA	5 Maiden Lane		West Jefferson, NC
Francis, William Jack, Jr.	SO	MEA	226 Bagwell Bx 3358	832-9131	Rt. 2 Bx 673B, Charlotte 9, NC
Frank, John Frederick	FR	CHL	217 Tucker	TE2-9387	213 McKinley Ave., Charleston, W.VA
Frank, Kenneth Richard	TC		124 Syme Bx 3524	832-9288	Rt. 2 Box 268, Norlina, NC
Franklin, Donald Ervin	SR	TC	bx 5566	TE2-9353	Box 390 Rt. 1, Valdesse
Franklin, Edward Carlyle	SR	POM	Campus YMCA Rm. 4	TE2-7184	2113 Tuckaway Lane, Richmond, VA
Franklin, Robert Caldwell	FR	CE	316D Bragaw		5015 Murrayhill Rd., Charlotte, NC
Franklin, William Wayne	GR	AEL	Bx 15285	VAB-4771	
Franks, Louis Dixon	FR	CE	203 Beeton	TE2-9334	2107 E. Walnut St., Goldsboro, NC
Frauenholz, Raymond Blaise	SR	ME	117D Bragaw Bx 15032		107 Charles St., Havelock, NC
Frazelle, Barry Newbold	JR	CE	500 Harvey St.	TE2-3436	500 Harvey St., Raleigh, NC
Frazier, Theodore B.	JR	TXT	419A Bragaw Bx 15190		Rt. 1 Box 82, Mt. Holly, NC
Frazier, Billy Van	SO	CEC			Rt. 2, Middlesex, NC
Frazier, James Richard	JR	PSY	2702 Hillsboro	TE2-1835	2501 Daleview Dr., Charlotte, NC
Frazier, Ralph Perkins	FR	MEL	205 Berry	TE2-9363	309 W. Bingham St., Statesville, NC
Frazier, Virgil Ironah	FR	CE	Stadium Bx 4360		843 Glencoe Rd., Durham, NC
Frees, David Edward	SR	CHL	bx 15361	TE4-9253	Rt. 2, Walnut Cove, NC
Frederick, Frank Lashley	FR	ME	35 Tucker Bx 4805	TE2-9237	218 Rolling Rd., Burlington, NC
Freed, Raymond Eric	FR	ME	23 Syme	TE2-9421	Bx 182, Elkin, NC
Freeland, Ernest Pinkney	SR	IATO	2226 Hillsboro	TE2-2584	2309 Rama Rd., Charlotte, NC
Freeman, Bruce Lloyd	SR	ASZ	424 Woodburn Rd.		210 Lawrence Ave., N. Plainfield, NJ
Freeman, Carlton, Jr.	SO	MEA	Q-321 McKimmon Vill.		Box 392, E. Flat Rock, NC
Freeman, Carvie Thomas	SO	CE	118B Bragaw Bx 15244		Rt. 8 Box "H-172, Charlotte, NC
Freeman, Duff Gordon	SO	EE	Bx 15154		Rt. 1, Box 52, Jonesville, NC
Freeman, John Frink, Jr.	FR	EE	21 Beeton Bx 3822	832-9261	RFD 1, Bladenboro, NC
Freeman, Kenneth Earl	SR	EE	UK-21 Verville	828-3916	UK-21 Verville, NCSC, Raleigh, NC
Freeman, Larry Delain	SR	CE	3800 Western Blvd.	828-8952	Kannapolis, NC
Freeman, Richard Bennett	FR	EE	2130 Mayview Rd.		Rt. 3 Bx 346, Wadesboro, NC
Freeman, Richard McConnell	SR	PY	419C Bragaw Bx 15192	TE4-1667	Rt. 8 Box 2-R-172, Charlotte, NC
Freeman, William Morgan	SO	ME	Box 465, Cary	467-1169	311 Vanderbilt Rd., Asheville, NC
Freeze, Charlie Hival	SO	CE	328 Alexander Bx 4191	TE2-9349	Box 87, Troutman, NC
Freeze, Don North	FR	ARC	364 Tucker Bx 4291	TE2-9303	308 Myrtle St., China Grove, NC
Freitas, Thomas James	MR	NE	109 Welch Bx 3245	TE2-9119	109 Welch St., W. 11th, WVA
Freikko, Eugene Anthony	JR	EE	218 Bagwell Bx 3350	TE2-9131	402 Queens Rd., Sanford, NC
Frelund, Arthur Rune	SO	CHL	125C Bragaw		39 Croyden Rd., Yonkers, NY
Freshwayter, Monty Craig	FR	AG	14 Stadium		Rt. 2, Mebane, NC
Fretwell, Ronald Page	FR	ME	309 Watauga Bx 3045		S. Main St., Chatham, VA
Frick, Harry Chester	JR	MEA	323 Beeton Bx 3791	TE2-9372	Rt. 8 Box 80, Statesville, NC
Frick, Lester Lee	SR	MEA	811 Merrite Rd.	TE3-0044	Box 169 Rt. 2, Albemarle, NC
Friday, Leonard LeRoy	JR	MED	2342 Grant Ave.	828-2992	817 Carolina Ave., Gastonia, NC
Friend, William Edward	JR	ARC	1204 Groveland Ave.	833-0359	609 Prince Ave., Goldsboro, NC
Frierson, John Lawrence	FR	ME	304 Owen Bx 3593	832-9222	Rt. 5 Box 218, Darlington, SC
Fritts, Tony Donald	FR	EE	308 Owen		Rt. 6, Lexington, NC
Frohlich, Peter Eric	FR	EE	139 Owen Bx 4433		High Farms, Landrum, SC
Frohman, David Bradley	JR	EE	325A Bragaw		104 Third St., Leaksville, NC
Fry, Harold Lawrence	FR	EE	416B Bragaw Bx 15335		Box 1, Box 100, Leaksville, NC
Fryar, George Woodrow	FR	ME	Tucker Bx 4617	TE4-9389	Rt. 1, Box 100, Leaksville, NC
Fulbright, James Claude	JR	CEC	210 Gold Bx 3222	TE2-9263	1227 Tenth Ave., Hickory, NC
Fulbright, Nelson Eugene	SO	EE	406B Bragaw Bx 15372	TE4-9754	420 Hamilton St., Newton, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Fulcher, Billy Earl	SO	FY	Ex 15302		Stacy, NC
Fulghum, James Spencer, III	FR	ASZ	3311 Onslow Rd.	TE2-2729	3311 Onslow Rd., Raleigh, NC
Fulghum, Robert Carl	FR	MEA	Ex 3367	TE4-9151	Rt. 1 Box 35B, Wilson, NC
Fuller, David Henry, Jr.	FR	EST	2117 Woodland Ave.	828-7043	2117 Woodland Ave., Raleigh, NC
Fuller, Jerry Wayne			309 Turlington		2613 Carpenter Rd., Durham, NC
Fuller, John Peters, Jr.	FR	ARC	231 Syme	832-9150	501 Paty St., Elizabethton, TENN
Fuller, Joseph Lindsay	SO	CE	252 Tucker Bx 4720		Beverly Rd., Burlington, NJ
Fuller, Richard Vernon	MR	AMA	C-6 Willmont Apts.	833-8859	1938 Harrie Rd., Charlotte, NC
Fulmer, Henry Paul	GR	ARC	2744 Rosedale Ave.	TE2-1706	402 Center St., Walterboro, SC
Fulp, Carl Douglas	SO	EE	C-17 McKimmon Vill.	833-5023	Box 93, Walkertown, NC
Fulp, James Francis	SO	ASZ	Maynard Rd., Cary		McSwain's Mobile Homes, Cary, NC
Fulp, Stephen Michael	SO	AMA	Bragaw Bx 15199	TE2-0007	Box 778, Kernersville, NC
Fulton, Allan Corbett	GR	IE	209 Gold		410 Donegal Dr., Towson 4, MD
Fulton, James Fuel, III	SO	CE	229 Becton, Bx 3763	TE2-9334	910 Olive St., Greensboro, NC
Fulton, James Woodrow	FR	ME	Owen Bx 4600		1132 Huntingdon Rd., Winston-Salem, NC
Fulton, John David	GR	AMA	Tucker Bx 4621	TE4-3488	11th St., Norton, VA
Funderburk, James Otto, Jr.	FR	CHE	361 Owen Bx 4572	TE4-9300	2918 Temple Ln., Charlotte, NC
Funderburk, Joel Malone	SO	ARC	2016 Lewis Farm Rd.	TE4-1194	3016 Lewis Farm Rd., Raleigh, NC
Funderburk, Lloyd Thomas	SO	UN	223 Becton Bx 3757	TE2-9334	2148 Highland St., Charlotte, NC
Funderburke, Wayne Daniel	FR	CE	101 Oberlin Rd.		569 Bladimore Dr., Charlotte, NC
Funk, Charles Silas	SR	CHE	205 Ashe Ave.	TE2-2598	924 Key St., Charlotte, NC
Funston, Guy		AGI	224 Woodburn Rd.		Trinity Pass Rd., Pound Ridge, NY
Furr, Kenneth Marion	FR	EE	Bx 4680		Rt. 1, Jamestown, NC
Furr, Robert Eugene	SR	CHE	101 Turlington Bx 4200	834-9279	Rt. 1, Stanfield, NC
Furr, Terry Lee	JR	ME	102 Turlington	TE4-9279	29 Main St., Concord, NC
Furr, Wilbur Franklin, Jr.	JR	IATO	2512 Clark Ave.	TE2-4843	486 Sunnyvale Ave., Concord, NC
Putrell, Frank Willson, Jr.	SO	IA	243 Owen Bx 4496	TE2-9252	456 Reynolds Dr., Statesville, NC
Putrell, Glenn Elliott	SR	CE	3800 Western Blvd.		Rt. 1, Goldsboro, NC
Putrell, Robert Glen, Jr.	JR	SED	137 Gardner St.	TE2-5172	307 Sewell St., Murfreesboro, NC
Putrell, Thomas Merrill	JR	ASZ	1504 Greenwood Dr.	TE2-4290	1504 Greenwood Dr., Raleigh, NC
Gabriel, Richard Gill	FR	FOR	317 Syme Bx 3581		2 Duke St., Asheville, NC
Gaddis, Thomas Michael	JR	ASW	5 Derry Bx 4338	TE2-9350	357 Lindley Ave., Asheboro, NC
Gaddy, William Marvin, Jr.	FR	CHE	Tucker Bx 4721	TE2-9387	200 French Broad St., Bravard, NC
Gaffney, Billy Franklin	SR	MEU	222 Hillcrest Rd.	TE2-7708	5451 Gwynne Ave., Charlotte, NC
Gaffney, David Leonard	FR	CHE	Tucker Bx 4624	TE2-9367	469 11th St., Cramerton, NC
Gagnon, David Charles	SR	TXT	Bx 15106		605 E. 3rd St., Ayden, NC
Gaines, Robert Glenn	FR	ASE	307 Tucker Bx 4740	TE2-9323	Rt. 1, Bear Creek, NC
Gaines, Robert Milton	SC	ASZ	1609 Center Rd.	834-5190	1609 Center Rd., Raleigh, NC
Gaither, Charles Lawrence	FR	ABF	31 Owen Bx 4546	TE2-9410	Rt. 5, Statesville, NC
Gaither, Marvin Fredric	FR	ABH	Rt. 1, Gary		Rt. 2, Box 31, Statesville, NC
Galal, Hassan El-Sayed	DR	CS	Box 5778		14 Cynadine. Azarito, Alexandria, UAR
Galarraaga, Luis Adriano	SC	ARC	1839 W. Smallwood	828-5001	1839 W. Smallwood Dr., Raleigh, NC
Gallimore, Paul James, Jr.	FR	AGI	233 Tucker Bx 4704	TE2-9387	Rt. 2 Box 396, Lexington, NC
Gallyon, James Roy	JR	MTE	108 Gold	TE2-9263	2216 Nash St., Sanford, NC
Gambill, Sidney Garrick	FR	FOR	216 Bagwell Bx 3348	932-9131	2279 Country Club Dr., Bridgeville, Penn.
Gamble, James Oliver, Jr.	SR	AGI	12 Syme	TE2-9421	Box 154, Greeleyville, SC
Garmons, Edgar Benjamin, Jr.	FR	ME	233 Owen	TE2-9410	1006 Peach St., Tarboro, NC
Gandy, Robert William	SR	MEA	2090 Bragaw Bx 15067	TE2-9185	Rt. 3 Box 234, Concord, VA
Gandolfi, Jose	GR	ME	105 Gold Dorm		Independencia 258, ICA, Peru
Garcia, Carlos S.	SR	EE	109 Tucker Bx 4622		245 College St., Macon, GA
Garcia, Oscar Nicolas	MR	EE			Box 5767, State Col. Sta., Raleigh, NC
Gardiner, David Carlton	SR	EE	S-3-B Cameron Ct.		Faulkner, MO
Gardner, Alfred Turner	SO	AGI	Owen Bx 4422	TE1-5195	Rt. 2, Fuquay Springs, NC
Gardner, David Hampton	JR	CE	226D Bragaw Bx 15309		Rt. 1, Roseboro, NC
Gardner, Gerald Lee, Jr.	GR	OIG	203 Gold Bx 3215		3700 Havenwood Dr., Charlotte, NC
Gardner, John Play	SO	ME	105B Bragaw		403 Forest Hill Dr., Shelby, NC
Gardner, Joseph Decatur	SR	POM	P-201 MSH		Rt. 2 Box 143, Holland, VA
Gardner, William Edgar	SR	ME	Bx 3238	TE2-9119	355 W. Mountain St., Kernersville, NC
Gardner, William Henry, Jr.	GR	CE	1110 Woodburn Rd.	489-4285	1110 Woodburn Rd., Durham, NC
Gargis, James Oliver	FR	GS	110 Georgetown Rd.	TE2-4927	110 Georgetown Rd., Raleigh, NC
Garner, Darrell Everett	JR	MED	27 Becton Bx 3730	TE2-9261	Rt. 1, Asheboro, NC
Garner, James Travis, Jr.	FR	ARC	152 Tucker	TE2-9388	1210 West Haven, Rocky Mount, NC
Garner, Jerry Leon	SR	MEA	2317 Lyon St.	833-7870	Box 518, Aberdeen, NC
Garner, Joseph Lee	SO	EE	207 Fourth Bx 3125	TE2-9159	Box 69, Newport, NC
Garner, Lonzo Scott, Jr.	SO	ARC	302 Becton		701 Vance St., Roanoke Rapids, NC
Garr, Melvyn Lawrence	UN	A	2320 Byrd St.	TE2-5223	2320 Byrd St., Raleigh, NC
Garren, Donald Lee	MR	EE	Box 638, Cary		Rt. 1 Box 638, Cary, NC
Garrell, Joe Cephus	JR	ABF	1601 Hillsboro St.	TE2-6601	21 Pireway Rd., Tabor City, NC
Garrett, Joseph Edward	SC	MEA	316C Bragaw Bx 15341		Rt. 1, Flat Rock, NC
Garrett, Ray Wayne	SR	FY	105 Fourth Bx 3115	TE2-9159	Moyock, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Garrett, Roy Lane	SR	EE	108 Fourth Ex 3118	TE2-2159	Magee, NC
Jarrick, Joseph Clifton, Jr.	SO	IE	1 Becton Ex 3833	832-9261	200 Bartley Ave., Spindale, NC
Garrison, Edward Lawrence	SR	ARS	306 Fourth Ex 3132	TE2-9159	609 Salem Rd., Morganton, NC
Garrison, George Walker, Jr.	MR	ME	400 Kinsey St.	828-9084	400 Kinsey St., Raleigh, NC
Jarrison, John Harvey	FR	MEA	253 Owen Ex 4504		826 East St., Albemarle, NC
Garrison, Luena Ames	FR	MEB	2208 Garden Pl.	832-7683	Rt. 1, Pfafftown, NC
Garrison, Willard Lee	SR	AMA	2204 Garden Pl.		Rt. 1, Pfafftown, NC
Garrison, Howard Reed	SR	ARC	3220 Bedford Ave.	TE2-2091	3220 Bedford Ave., Raleigh, NC
Garrison, John Paul, Jr.	SO	IA	104 S. Dawson St.	TE2-7743	Box 426, Conway, NC
Jaskins, Karl Sloan	JR	ARC	1509 Hillsboro St.		Payne Branch Rd., Boone, NC
Gaston, Joseph Parke, Jr.	FR	AMA	228 Bagwell, Ex 3360	832-9131	1604 Beaumont Rd., Greenville, NC
Gaugh, Jon Lee	SO	NE	Hillsboro YMCA		4417 Firwood Lane, Charlotte, NC
Gavaghan, Joseph Patrick	FR	RPA	248 Tucker	TE2-9387	2437 Boyd Rd., Huntingdon Valley, PA
Gaw, Eng Tsan	FR	EE	2550 Glenwood Ave.	828-4259	825 Reing Regente St., Manila, PHI
Gay, Billy MacArthur	JR	URE	145 Tucker Ex 4653	TE2-9388	2500 W. West Ave., Southern Pines, N
Gay, Laura Blaneke	GR	CTG	1304 Park Dr.	TE3-6702	1304 Park Dr., Raleigh, NC
Gealy, Samuel Richard	FR	RPA	Alexander Ex 4162	TE2-9746	2 Wellesley Ave., New Castle, PA
Gayard, Onward James, Jr.	JR	AED	124 Tucker Box 4635	TE2-9367	Box 127, Bath, NC
Geaslen, Arthur Lee, Jr.	SO	AMA	18 Turner St.	834-3517	200 N. Wolfenare Dr., London bridge, VA
Geddie, Edgar McPhail, Jr.	SR	NE	316 Forsyth St.	TE4-4077	316 Forsyth St., Raleigh, NC
Gee, James Brooks	FR	NE	321 Turlington Ex 4382	832-9192	409 Cameron St., Burlington, NC
Gehres, Loran Leroy	UN	OS	5321 E. Lakeside Dr.	828-6453	5321 E. Lakeside Dr., Raleigh, NC
Gemmill, Andrew Hamilton	SO	ARC	15 Rosemary St.	TE2-8703	2215 Mimosa Pl., Wilmington, NC
Gencer, Tolga	FR	TC	143 Owen		Icebeci, Koyluler, Sok, No. 15/4 Cebeci-Ankara/Turkey
Gentle, Horace Stephen	JR	ASW	365 Tucker		2000 Brawtley Rd., Kannapolis, NC
Gentry, Charles Edwin	FR	POR	1104 Glenwood Ave.	TE3-1762	Rt. 3, Weaverville, NC
Gentry, Carl Lacy	SR	MEA	118 Watauga		Henri St., Mt. Airy, NC
Gentry, Hughie Michael	SO	TXT	Ex 15301		76 Baker St., Ca-Vel, NC
Gentry, Leon Jennings	JR	EE	4104 Chamberlain St.		Rt. 2, Madison, NC
Gentry, Steve Elaine	SR	CEC	42 W. Dixie Dr.	832-1881	Sycamore Dr., Arden, NC
Gentzsch, Enrique Pedro	JR	AT	Gold Ex 3220	TE2-9263	Calle Santa Isabel #684 Valparaiso, Chile
George, Edwin Dale			Rt. 1, Cary		Rt. 3 Box 124H, Robbinsville, NC
George, Harvey William	SO	ASN	102A Bragaw Ex 15211		534 Audubon Dr., Greensboro, NC
German, John Thomas	SO	ATH	110 Becton Ex 3710	TE2-9256	Rt. 1, Cary, NC
Gernert, Peter Robert	SR	ME	bx 5271	VA8-6188	Box K, Andrews, NC
Geron, George Henry	FR	PPT	Becton Ex 3807	832-9261	Rt. 1, West Point, VA
Gerstel Eva	GR	RS	1410 Duplin	TE4-2155	1410 Duplin Rd., Raleigh, NC
Gibbs, Frank Monroe	SO	PD	309 Berry Ex 4329		Box 365, Old Fort, NC
Gibson, Albert Fitzhugh	SO	NE	323C Bragaw Ex 15140		605 Kenwood Ave., Wilmington, NC
Gibson, Cedric Lamont	FR	ME	Becton	TE2-9256	Box 408, Rocky Mount, NC
Gibson, Edward Leven	SO	MTE	Ex 5566		820 Woodruff Pl., Charlotte, NC
Gibson, George Coleman	FR	CE	2533 York Rd.	TE4-1258	2533 York Rd., Raleigh, NC
Gibson, Larry Stafford	SR	TXT	303C Bragaw, Ex 15106		Box 97, Swepsonville, NC
Gibson, Peter Murray	MR	AMA	1628 Park Dr.	TE2-1118	Rt. 2 Box 90, Laurel Hill, NC
Gidney, Robert Sarratt, Jr.	GR	CE	803 N. Person St.	TE2-6302	100 Brookhill Rd., Shelby, NC
Gietren, Phillip Gordon	SR	ARC	303 Fourth		5420 Topping Pl., Charlotte, NC
Gifford, John Winston	SR	IL		TE3-9334	1684 33rd St., Vera Beach, FLA
Gilbert, George Harris	SO	POR	Ex 4104		Moyock, NC
Gilbert, John Jay, Jr.	JR	CE	17 Dixie Trail	TE4-5923	613 N. West St., Ahoskie, NC
Gilbert, Paul Pressly	FR	CE	10 Stadium Ex 4355		305 E. Broad St., Statesville, NC
Giles, Gary Durfee	SR	ARC	2600 Wade Ave.		2600 Wade Ave., Raleigh, NC
Giles, James Elton	UN		Pennington Smith Funeral Home		Rt. 1, Godwin, NC
Giles, James Samuel	SO	AMA	1908 Park Dr.	TE2-5406	Rt. 2 Box 586, Roanoke Rapids, NC
Giles, Kenneth Darden	FR	SED	6 Syme Ex 3602	TE2-9421	504 W. Sixth St., Newton, NC
Giles, George Wallace	FR	POR	2600 Wade Ave.		94/48 Diplomatic En., New Delhi, IND
Giles, Thomas Lancaster	FR	ASV	337 Tucker Ex 4767	TE2-9323	Rt. 1, Monroe, NC
Gill, James Elmer	UN	TXT	325 Turlington Ex 4287	832-9192	Rt. 4 Box 276, Henderson, NC
Gilliland, James Ivan	SR	TXT	2744 Rosedale Ave.	828-3458	2016 Truman Rd., Charlotte, NC
Gilleland, Elmer Eugene	FR	POR	302 Owen Ex 4519		3025 Clark St., Charlotte, NC
Gillen, Stacy Bernard	SR	RPA	143 Tucker Ex 4652		801 N. 5th St., Steubenville, OHIO
Gillespie, Frederick Jennings	SR	NEC	132 Woodburn Rd.	TE2-7708	404 S. Chapman St., Greensboro, NC
Gillespie, George Lance	SR	ME	118 Syme	TE2-9288	RFD 1, Sylva, NC
Gillespie, Gilbert McClung	SR	ME	2160 Mayview Rd.	834-4649	Box 172, Robbinsville, NC
Gillham, Frederick Everard	GR	UN	2626 1/2 Bedford Ave.	828-7837	Gatooma, S. Rhodesia
Gilliam, David D.	MR	EE			Apt. 8 Martain Apts, Radford, VA
Gilliam, Henry C., Jr.	SR	ARC	2106 Cowper Dr.	832-5531	Rt. 3, Sanford, NC
Gilliam, Elmer Ray	FR	AMA	G-22 MSH		Wicker St., Gibsonville, NC
Gillie, John McHatt, Jr.	SO	IE	311D Bragaw Ex 15123	TE4-9174	Rt. 3 Box 470, Fayetteville, NC
Gillie, Kenneth Glen	SR	EE	G-112 McKimmon Vill.	833-1527	Q-112 McKimmon Vill., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Jilman, John Douglas	JR	PLM	130 Owen Bx 4425	TE2-9437	Rt. 3, Glen Allen, VA
Gilmore, Wesley Wilson, Jr.	SR	EE	5335 E. Lakeside Dr.	TE2-5041	5335 E. Lakeside Dr., Raleigh, NC
Wilstad, Claire Jean	FR	FY	163 Tucker Bx 4670		411 Phifer Rd., Kings Mtn., NC
Zinader, Gerald Kent	SO	ARC	320 Becton		8225 S.W. 95th St., Miami, FLA
Zirke, Arnold Anthony	FR	EE	306 Tucker	TE2-8223	14 Cheshire Rd., Bethpage, NY
Cleem, Gordon, Jr.	JK	EE	Stadium Bx 4368		91 Fenner Ave., Asheville, NC
Allen, James Lewis	SO	EE	11 Becton, Bx 3813	832-9261	4724 Alston Ave Rd., Durham, NC
Glosson, Buster Cleveland	JK	EE	3130 Bragaw Bx 15126	TE4-9179	Ht. 2 Box 255, Greensboro, NC
Glover, Frank Alexander	SO	EE	414b Bragaw Bx 15388	TE4-9754	215 N. King St., Gastonia, NC
Goebble, Thomas W.	LR	CHB	125 Cox Ave.	828-4376	125 Cox Ave., Raleigh, NC
Goddard, David Martin	SO	FY	207 Berry Bx 4314	TE2-9363	500 Adams St., Raleigh, NC
Godfrey, Joseph Earl, Jr.	SO	EE			1104 Murray St., Durham, NC
Godfrey, Marvin Ralph	NR	JS	837 Jones Ave.	TE2-3340	837 Jones Ave., Raleigh, NC
Godwin, Randolph Ray	SR	EE	212A W. Park Ave.		Rt. 1 Box 225, Wilson, NC
Godwin, Richard Holder	SO	EE	808 W. Pineland Dr.	TE3-7073	808 W. Pineland Dr., Raleigh, NC
Goepfert, James Lacey	FR	EE	131 Syme	832-9288	3629 Drayton Rd., Fayetteville, NC
Goetze, Alfred John	GR	EE	615 Stacy St.	TE2-5861	615 Stacy St., Raleigh, NC
Goins, Frederick Lester	FR	CHB	117 Syme Bx 3517		171 W. Poplar St., Mt. Airy, NC
Goins, James Donald	JK	CEC	2316 Hillsboro St.	TE4-4173	2708 Maple Ave., Burlington, NC
Gokcen, Ylar A.	GR	TC	Bx 5764		Cihangir Ozogul Sok 9/6 Istanbul, Turkey
Gold, William Alfred	FR	MEA	352 Tucker Bx 4779	TE2-9323	Box 95, Winterville, NC
Golden, Daniel John	SO	RFA	Berry Bx 4317	TE2-9363	Saint John's, PA
Golden, John Dennis	SR	RFA	219 Bragaw		1631 Cheltenham Ave., Phila 24, PA
Goldenberg, Jose Bernardo	NR	GN	2724 1/2 Clark Ave.	834-9595	P. Goyena 3246 Castelar, Argentina
Goldfarb, Michael Barry	GR	TAT	1508 Frank St.	TE3-3508	68-37 Yellowstone Blvd., Forest Hills 75, NY
Goldin, Joel A.	JR	AMA	519 E. Lane St.		519 E. Lane St., Raleigh, NC
Goldman, Barry Irving	JR	EE	1214 Bragaw Bx 15040		1598 Dormanly Dr., Miami Beach, FLA
Goldstein, Ronald Jerome	SR	EE	2108 Bragaw Bx 15276	TE4-9123	174 Cedar St., Mooresville, NC
Goldstein, Ronald Phillip	JK	EE	2735 1/2 Rosedale Ave.	TE3-0551	54 Edgelawn, Asheville, NC
Goldston, Herbert James	SO	AMA	3414 Hillsboro St.	VAB-9181	538 Sunset Dr., Sanford, NC
Goldston, James Hobson	GR	EE	10 Enterprise St.		7113 Neal Rd., Charlotte, NC
Golmon, Anthony Joseph, Jr.	SO	RFA	Watauga Bx 3032	TE2-9132	3708 W. 3rd Ave., Beaver Falls, PA
Gonzalez, Rafael Enrique	NR	SSC	101 Williams Hall		2122 Mayview Rd., Raleigh, NC
Gooch, Eugene Douglas	FR	FOR	167 Owen Bx 4457		Box 26, Stem, NC
Gooch, James Clifford, Jr.	JR	EE	412A Bragaw Bx 15383	TE4-9754	1820 Trent Blvd., New Bern, NC
Gooden, David Kent	FR	FOR	230 Tucker Bx 4701		Rt. 1 Box 153, Elizabethtown, NC
Gooden, David Kent					Rt. 1, Box 153, Elizabethtown, NC
Gooden, John Alexander	FR	CE	Becton		Rt. 1, Box 1450, Elizabethtown, NC
Goodman, Lennis Murray	JR	EE	W-312 NSH		Rt. 4 Box 83, Salisbury, NC
Goodman, Gale Herbert	FR	PIT	303 Owen Bx 4520	834-9300	West Jefferson, NC
Goodman, Harold Kent	JR	FCM	404G Bragaw Bx 15369	TE4-9754	214 Milford Hills Rd., Salisbury, NC
Goodman, Jeffrey Vance	SO	CEC	114 Clark St.		214 Confederate Ave., Salisbury, NC
Goodman, Jesse Loice, Jr.	FR	ASE	150 Owen Bx 4441	TE2-9637	1709 Goodman Rd., Kinston, NC
Goodman, Major M.	NR	GN	4220 Bragaw Bx 15407	TE4-9754	Box 35 Rt. 1, Des Moines, IOWA
Goodman, Michael Alvin	GR	CEC	1408 Hillsboro St.	TE2-5745	214 Confederate Ave., Salisbury, NC
Goodman, Robert Glade	UN	GR	17 Syme		Box 56, Norwood, NC
Goodman, Robert Lee	JR	AED	1718 Hillsboro St.	VAB-4464	Rt. 1, Gold Hill, NC
Goodman, Victor Johnston, Jr.	FR	MTE	307 Bagwell Bx 3373	834-9151	Rt. 3 Box 122, Rockingham, NC
Goodman, Walter Gerald	SO	NE	4150 Bragaw Bx 15184		2412 Toddville Rd., Charlotte, NC
Goodnight, Cecil Lamont	UN	JS	16 Enterprise St.		Rt. 1, China Grove, NC
Goodnight, James Howard	JO	AMA	2405 Clark Ave.	TE2-6543	1316 Hawthorne Rd., Wilmington, NC
Goodnight, Fred Ransom	JK	EE	102 Welch	TE2-9119	1300 Rainbow Dr., Kannapolis, NC
Goodrich, Emmett Hilton, Jr.	SO	EE	16 Enterprise St.	832-5140	131 N. Clark St., Henderson, NC
Goodson, Jerry Steven	JO	TC	2090 Bragaw		Box 402, Lincolnton, NC
Goodson, Mark Thomas	JK	CEC	16 Enterprise St.		309 Riverview Dr., Asheville, NC
Goodson, Theodore, Jr.	SO	CH	325 W. Martin St.	TE3-0287	325 E. Martin St., Raleigh, NC
Goodwin, James Larry	FR	EE	362 Tucker Bx 4789		309 Miller Blvd., Howelock, NC
Goodwin, Lester McGee	JK	AWB	2229 Noble Rd.	832-2284	2229 Noble Rd., Raleigh, NC
Goodwin, Lewis Reginald	JR	AGE	630 Stacy St.	TE3-2265	630 Stacy St., Raleigh, NC
Goodwin, Leonard Cotten	FR	AGI	57 Tucker Bx 4807	TE2-9237	Rt. 1, Stem, NC
Goodwin, Roy Anderson, Jr.	JK	ATI	232 Becton Bx 3766		120 Charles St., Lumberton, NC
Goodwin, Vernon Leon, Jr.	JK	MS	3056 Bragaw	TE4-9179	Rt. 2 Box 24, New Bern, NC
Goodaby, Patrick Forest	JR	FY	2622 Kilgore	834-8117	2022 Kilgore Ave., Raleigh, NC
Gordon, Charles Paisley	JR	TAT	2514 Clark	TE2-9148	114 Elgin Pl., Greensboro, NC
Gordon, Dwight Francis, Jr.	GR	EE	1-18 McKinmon Vill.	828-4503	45 Duane St., Manchester, CONN
Gordon, Ross Lionel	FR	MEB	51 Owen Ex 4585		Box 127, Four Oaks, NC
Gorham, John Churchill	JK	PSY	9 Ferndel Lane	TE2-1755	712 Rose, Rocky Mount, NC
Goss, Michael Wayne	UN	AGI	3530 Western Blvd.		Rt. 5, Oxford, NC
Gosney, William Milton, Jr.	JK	EE	211 Hawthorne Rd.	828-9143	503 Fourth St., Spencer, NC
Goss, Kenneth Merrill	FR	A			RFD 5, Oxford, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Gossell, Ronald Richard	SO	HFA	115A Bragaw		700 5th St., Harvard, ILL
Goswich, Thomas Emmett	SR	AMA	2018 Bragaw Bx 15050		2400 Vinewood Dr., Durham, NC
Gowen, Howerton, Jr.	UN	GS	1710 Hillsboro St.	TE3-6545	429 Hamilton St., Roanoke Rapids, NC
Grady, Donald Lewis	FR	ASE	304 Tucker Ex 4737	TE2-9322	Rt. 1 Box 183, Mt. Olive, NC
Grady, James Earl	SO	ME	125B Bragaw Bx 15097	TE2-9185	Rt. 2, Mt. Olive, NC
Grady, John David, III	JK	UE	4199 Alexander	TE2-9349	403 S. Jefferson St., Goldsboro, NC
Grady, Michael Irlie	SO	BE	103 Chamberlain		1623 Marvella, Rocky Mount, NC
Grady, Warren Allen			UK-25 Verville		UK-25 Verville, NCSC, Raleigh, NC
Grady, Zeb DeWitt	JR	ATH	Bx 15340	TE4-9253	Rt. 1, Dudley, NC
Graham, James Lee	SR	UE	2204 Garden Pl.		430 N. Bridge St., Elkin, NC
Graham, John Charles	SO	AGI	12 Syme Bx 3608	TE2-9421	Rt. 1 Box 217, Dillon, SC
Graham, John	DR	ENT	2902 Everett Ave.	TE2-1476	2902 Everett Ave., Raleigh, NC
Graham, Ralph Leach	SR	ARC	112 Pureford Rd., Chapel Hill		112 Pureford Rd., Chapel Hill, NC
Graham, William Edward	FR	CHE	320 Syme Bx 3584	832-9222	Rt. 3 Box 228, Fayetteville, NC
Gram, Wallace Dunbar	SO	FOR			Ward St., Chapel Hill, NC
Grant, James William	SR	ME	321B Bragaw	TE4-9179	5543 Robinhood Rd., Charlotte, NC
Grant, Martin Smith	SK	TE	2715 Avents Ferry Rd.		1301 Azalea Dr., Wilmington, NC
Grant, William Perry	JR	REC	2512 Clark Ave.	TE2-4843	235 Lock Dr., Winston-Salem, NC
Grasso, John Anthony	SO	BE	308 Owen Bx 4525		6 Arbor Dr., Lexington, NC
Grauer, Norma J.	GR	OIG	633 Ashford St.	828-8819	633 Ashford St., Raleigh, NC
Gravely, Benjamin Tyson	SR	MY	311B Bragaw		2014 Hopedale Ave., Charlotte, NC
Graves, Alfred Arthur	SR	SEL	19 E. Dixie Dr.		Rt. 1 Box 79, Gaston, NC
Graves, Robert Lee		CE	2211 Hope St.	834-1782	600 Charles St., Mebane, NC
Graves, Roger H.	SO	LE	413A Bragaw		220 Harden St., Burlington, NC
Gray, Albert Dial	SR	ABA	125 Cox Ave.		110 W. Lewis St., Whiteville, NC
Gray, Astor Holmes, III	SO	CEC	211 Bagwell Ex 3343	TE4-9219	Bx 84, Peachland, NC
Gray, Edward	JR	MTE	113 Alexander Bx 4110	TE2-9257	773 Palmetto St., Spartanburg, SC
Gray, J. Lander	JR	TXT		TE2-7708	220 W. 4th Ave., Gastonia, NC
Gray, John Watt, III	JR	AMA	Becton Bx 3745	TE2-9334	Rt. 1, Smithfield, NC
Gray, Michael Forrest	FR	MEA	159 Owen	832-9115	116 N. Kerr Ave., Wilmington, NC
Gray, Paul Tudor	UN	GS	132 Woodburn		132 Woodburn Rd., Raleigh, NC
Gray, Robert Frederick	SR	MLA	1720 Hillsboro St.	TE2-6170	46 Fairway Dr., Asheville, NC
Gray, Robert Frederick	JR	CE	2723 W. Avents Ferry Rd.		306 W. Morgan St., Wadesboro, NC
Gray, Roger Perkins, Jr.	SR	EE	1-12 McKimmon Vill.	VAB-9703	Rt. 5, Winston-Salem, NC
Gray, Ronnie Lupton	SO	FOR	409D Bragaw		1002 Tuscarora Ave., Elizabeth City
Gray, Wallace Thomas	JR	CHE	1718 Hillsboro St.	VAB-4464	310 West St., Ahoskie, NC
Gray, Walter Edgar	ME	AWB	Rt. 1, Cary	VAB-6616	935 Oakley Ave., Roanoke Rapids, NC
Graybeal, Joseph Sheridan	SR	AMA			Creston, NC
Green, Billy Gordon, Jr.	FR	MEA	503 Frank St.	TE2-0059	503 Frank St., Raleigh, NC
Green, Charles Robert	SR	CE	118 Watauga	TE2-9447	Rt. 2, Brevard, NC
Green, Don Wayne	SO	AMA	345 Owen		Rt. 6 Box 248A, Raleigh, NC
Green, Franklin Roark	JR	ME	2226 Hillsboro	TE3-1140	2606 Sater St., Durham, NC
Green, Joseph Allen	FR	AGI			Rt. 4, Zebulon, NC
Green, Martin Klapp	FR	GS	1724 Piccadilly Lane	TE3-8403	1724 Piccadilly Lane, Raleigh, NC
Green, Raymond Vernon	FR	ENG	Bx 4452		Rt. 2, Brevard, NC
Green, Robert Carroll	SR	AMA			1231 Balsam Rd., Waynesville, NC
Greene, Ernest Leland, Jr.	SR	EE	Rt. 3 Bx 663	TE3-8573	Rt. 3 Box 663, Raleigh, NC
Greene, James Floyd, Jr.	GR	ENT	3020 Mayview Rd.	TE3-9024	3020 Mayview Rd., Raleigh, NC
Greene, James Henry	SO	AGI	Ex 4591	832-9142	Rt. 1, Cameron, NC
Greene, Joseph Carl, Jr.	JH	MLD	1208 College Pl.		Rt. 2 Box 180, Granite Falls, NC
Greene, Ralph Frank	SR	CHE	Welch Bx 3272		Box 424 Rt. 1, Wexford, PA
Greene, Robert Larry	SR	FOR	Ex 313 MWH		15 W. Henderson, Marion, NC
Greene, William Wendell	JR	ME	309 Syme Bx 3573	832-9222	203 Jackson Dr., Charlotte, NC
Greenfield, Robert Julius	SO	CHE	321C Bragaw	TE2-9376	202 South King St., Morganton, NC
Greening, Walter Frank	FR	CHE	52 Tucker	TE2-9277	202 Main St., Maybrook, NY
Greenway, Robert Reinley	FR	EE	304 Gold	TE2-9263	3260 Nottingham Rd., Winston-Salem, NC
Greeson, Claude Dugan	JR	AMA	Henry Bx 4537		Rt. 1, Gaston, NC
Greeson, Roy William, Jr.	FR	AMA	51 Tucker		103 N. Sharon Rd., Lenoir, NC
Gregory, Barry Randall	SR	AMA	Chapman Court	834-2842	Rt. 4 Box 84, Wadesboro, NC
Gregory, Edward Walker	FR	GEE	3808 Ridge Rd.	TE2-3020	3808 Blue Ridge Rd., Raleigh, NC
Gregory, Jimmie Harold	JR	ENG	1720 Hillsboro	VAB-9200	Emmett St., Martinsville, VA
Gregory, Jimmy Douglas	SO	FOR	102B Bragaw Bx 15212	TE2-9180	Rt. 2, Angier, NC
Gregory, Joseph Alexander	FR	AGE	307 Tucker Bx 4740	TE2-9323	3808 Blue Ridge Rd., Raleigh, NC
Gregory, Walton Carlyle	SK	RET	3808 Blue Ridge Rd.	TE2-3020	Rt. 2, Liberty, NC
Gregson, James Henry	JR	MEA	Watauga Bx 4117	TE2-9257	310 Taylor St., Raleigh, NC
Gregson, Raymond Thomas	JR	FOR	310 Taylor St.	TE3-5021	719 Chamberlain St., Raleigh, NC
Greiner, Donald Paul	SR	TA	719 Chamberlain		200 E. First St., Kannapolis, NC
Gribble, James Davis	FR	ASA		832-9261	Rt. 2, Dallas, NC
Gribble, James Edward	FR	AWB	24 Becton Bx 3825		200 E. First St., Kannapolis, NC
Gribble, Richard Conrad	SO	EE	308B Bragaw Ex 15323	TE4-9253	

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Jrce, James Press	JK	ASR	3414 Hillsboro	VAB-9181	613 W. Graham St., Shelby, NC
Jrce, Ronald Harry	JK	ME	124 Bagwell Ave.		208 Moore Ave., Mt. Holly, NC
Jriffin, Michael Talmadge	FR	TAT			1312 S. York St., Gastonia, NC
Jriffin, Harry Jantee	SO	AMA	203 Welch	TE2-7708	3203 W. 57th St., Indianapolis, IND
Jriffin, Charles Bennett	SR	IE	1710 Hillsboro St.	TE4-2001	Woodville, NC
Jriffin, Charles Wilson	JR	ME	511 Cole St.		Rt. 1, New London, NC
Jriffin, David Hughes	JK	JE			400 Boddie St., Nashville, NC
Jriffin, Dwight McLeah, Jr.	FR	JE	Ex 3345	832-9131	106 West St., Pittsboro, NC
Jriffin, Elmo Mayo	SR	IE	603 Stacy St.	832-9519	603 Stacy St., Raleigh, NC
Jriffin, Henry Newbold	FR	ME	4760 Tucker	TE2-9323	709 W. Church St., Elizabeth City, NC
Griffin, Horace Duane	SO	CHE	4 Berry	TE2-9350	1216 Horne St., Rocky Mount, NC
Griffin, James Lanier	SR	TAT	1710 Hillsboro St.	TE4-2001	400 Byrd Blvd., Greenville, NC
Griffin, Joe Earl, Jr.	SR	AED	2700 Hillsboro St.		Rt. 2, Fairmont, NC
Griffin, John Hassell	SO	ML	202 Berry Ex 1309		1006 W. Haven Blvd., Rocky Mt., NC
Griffin, John Wayne	FR	IE	331 Bagwell Bx 3397	934-9151	Rt. 1, Merry Hill, NC
Griffin, Johnny Gray	FR	AGI	302 Watauga Ex 3038	TE2-9132	Rt. 1 Box 220, Williamston, NC
Griffin, Joseph Simon	SO	AED	130 Tucker Ex 4641	TE2-9367	Rt. 2 Box 190, Williamston, NC
Griffin, Kenneth Brock	SO	ME	202B Bragaw Ex 15260		Rt. 2 Box 262A, Grardie Falls, NC
Griffin, Larry Duane	SR	MSA	105 Chamberlain	833-1059	Box 695, Kannapolis, NC
Griffin, Melvin Clifton	SO	JE	114 Tucker Ex 4625		Rt. 2, Spring Hope, NC
Griffin, Robert Paul, Jr.	JR	IE	1718 Hillsboro St.	VAB-4464	265 N. Gordon Dr., Winston-Salem, NC
Griffin, Roscoe David	JK	ME	Kirby St.		1435 Acadia St., Durham, NC
Griffin, Rudy Lee	JR	CE			311 Dacian Ave., Durham, NC
Griffin, Sidney Ruffin	FR	GS	10 Enterprise St.	833-9337	Box 447, Nashville, NC
Griffin, Stephen Bryant	JR	ARC	0 Logan Ct.		116 Dunbarton Cir., Aiken, NC
Griffin, Thomas Waters	JO	JE			215 Williams St., Williamston, NC
Griffin, William Thomas	JR	CHE	3174 Bragaw Ex 15136	TE4-9179	313 Glenn Ave., Kannapolis, NC
Griffin, William Wallace	SO	MEA	204 Bagwell	TE2-9131	512 S. Deans, Wilson, NC
Griffin, Robert Wallace, Jr.	SR	CEC	2514 Clark Ave.	TE2-9148	409 Ford St., Lexington, NC
Grigg, Gaither Glenn, Jr.	SR	CEC	P-13 NSE	833-0273	509 Crescent Hill Rd., Kings Mtn., NC
Griggs, Allan Dupree	SR	AEC	2713 1/2 Vanderbilt Ave.		Rt. 3, Wadesboro, NC
Griggs, George Michael	FR	E	226 Owen	TE2-9410	Rt. 1 Box 53, Kannapolis, NC
Grinberg, Manuel	TX	EX	2703 Broadwell Dr.	834-4163	Av. 39 No. 7-64, Bogota, Colombia
Grimes, John Michael	JR	TC	Bragaw		117 W. Riverside, Smithfield, NC
Grimes, Thomas Mewell	JR	SED	Box 395, Cary	H07-9323	Box 395, Cary, NC
Grimes, Walter Smith, Jr.	FR	AGI	3422 Avent Ferry Rd.	VAB-5289	RFD 1, Whitakers, NC
Griswold, Guy Doan	SR	CEC	219A Bragaw Ex 15084	TE2-9185	3706 Louanna Ave., Downton, PA
Griswold, Robert Nelson	JR	IE	Box 66R, Cary	467-1253	Box 668, Cary, NC
Gritton, Earl Thomas	SR	CS	2713 Clark Ave.	833-2179	West Branch, Iowa
Groce, Augustus Benjamin	SR	PPT	806 Gorman Dr.		500 Lynwood Blvd., Nashville, TENN
Groot, John Millard	JR	TAT	55 Owen	TE2-9146	Box 34, Grifton, NC
Grogan, James Moseley	JK	ME	1307 Jackson St.	834-6979	305 N. 8th Ave., Mayodan, NC
Groner, Richard Steven	FR	CE	149 Owen Ex 4440		Rt. 1, Mt. Holly, NC
Grooms, James Riley	SR	TC	424C Bragaw Ex 15410	TE4-9754	Rt. 7, Box 155, Greensboro, NC
Grosch, Edith Taft	JK	IE	1222 Duplin Rd.	TE3-5430	1222 Duplin Rd., Raleigh, NC
Groot, Johannes Maria	MR	AEE	2211 Hope St.		2211 Hope St., Raleigh, NC
Gross, James Koehler	SR	IE	705D Daniels St.	TE2-5396	2715 Glenhaven Ln., Winston-Salem, NC
Gross, Ralph Springer	SO	ME	310 Becton Ex 3778	TE2-9372	2715 Glenhaven Ln., Winston-Salem, NC
Grosswald, Roger Ralph	FR	ARC	110 Bagwell Ex 1033		421 Bertonley, Charlotte, NC
Groszmann, Miguel	TX	TX	205 Syme		Uruguay 12f, San Martin, Argentina
Grove, John Roger	SO	IE	2709 Clark Ave.	828-7883	2314 Lafayette Ave., Greensboro, NC
Grove, Robert Barry	JR	IE	105C Bragaw Ex 15011		1030 Richmond Dr., Rock Hill, SC
Grover, John Matland	JE	FY	145 Tucker	TE2-9361	535 N. May St., Southern Pines, NC
Grubb, Fred Deland	JK	IE	2703 Gordon St.	TE2-8104	1118 Adams St., High Point, NC
Grubb, Herbert Warren	JR	AGC	337 Hillsboro St.	H07-9567	337 Hillsboro St., Cary, NC
Grubbs, John Carlos	SR	IE	225 Alexander		1229 11th St., Hickory, NC
Grubbs, Thomas Odell, Jr.	FR	CE	Tucker Bx 4661	TE2-9388	Rt. 3, Winston-Salem, NC
Gruehn, Charles Edward	FR	ARC	309 Gold	TE2-9263	2003 Liberty Dr., Greensboro, NC
Grum, John Anthony	JK	CHE	604 S. Boylan		323 E. Willard, Lansing, MICH
Gueifa, Egidio	JK	TX	2949 Winchester Ct.	TE2-6837	2949 Winchester Ct., Raleigh, NC
Guerard, Edward Percy	SO	PPT	120 Woodburn Rd.	TE2-3701	Front St., Georgetown, SC
Guetti, Nieves Fernandez	SO	ARC	3600 Browning Pl.	828-4371	3600 Browning Pl., Raleigh, NC
Guin, James MacColon	SR	ASZ	313 Turlington Ex 4275	832-9192	521 Grant Ave., Raeford, NC
Guion, William Scott	SR	AMA	18 Turner St.	834-3517	1213 Ideal Way, Charlotte, NC
Gulledge, Vance Everett	MR	MEB	Welch Ex 3258		Box 114, Lilesville, NC
Gun, Atindra-Mohan	MR	EST			2441E Vivekanarde, Calcutta, India
Gunter, Dale Steven	SR	IE	Ex 4190	TE2-9149	1006 E. Ozark Ave., Gastonia, NC
Gunter, John Raymond	SR	IE	4111 Laurel Ridge Dr.	TE3-5282	4111 Laurel Ridge Dr., Raleigh, NC
Gunter, Thomas Holland	SR	MSA	1957 Clark Ave.	828-5916	1957 Clark Ave., Raleigh, NC
Gunter, Thomas James	SR	IE	412 Stacy St.	833-6474	412 Stacy St., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Gunz, William Reynolds	FR	FOM	Tucker Bx 1744	TE4-9739	3216 NE 31st Ave., Pompano Beach, FLA
Gupta, Dilbag Mohan	MR	TKT	7 Maiden Lane		Panchsuktra Rd., Jammu, India
Gupta, Om Narain	JK	ME	7 Maiden Lane	TE2-3010	7 Maiden Lane, Raleigh, NC
Gupton, Charles Pernell	MR	GEE	2407 Greenway Ave.	828-8506	Rt. 1, Castalia, NC
Gupton, Creighton Lee	MR	AC	P-207 MSH		Rt. 1, Castalia, NC
Gupton, Harris Baker	FR	EE	127 Tucker Bx 4638	TE2-9367	Rt. 2 Box 241, Louisburg, NC
Gupton, Theibert Datis, Jr.	SO	CE	211 Hawthorne Rd.	828-9143	109 Zollicoffer Ave., Henderson, NC
Gupton, Wallace Irving	SO	ME	120 Owen Bx 4415	TE2-9115	717 Harriet St., Henderson, NC
Gurganus, Thomas Burl	FR	MEB	205 Tucker Bx 4678	TE4-9387	416 Washington St., Plymouth, NC
Gurkin, Charles Thomas	FR	FOR	Tucker Bx 4678	TE2-9387	519 Main St., Plymouth, NC
Gurkin, James Herbert	SR	FOM	1620 Hillsboro St.	TE4-9378	Rt. 1, Williamston, NC
Gurkin, Luther Warren, III	SR	MEA	3210 1/2 Merriman Ave.	828-3949	Box 643, Plymouth, NC
Gurley, David Ezra	SO	ME	3150 Bragaw Bx 15131	TE4-9179	Rt. 2 Box 220, Goldsboro, NC
Gurley, Dennis Eugene	SO	FMM			2015 1st Ave., Hickory, NC
Gurley, Edward, III	FR	JE	336 Tucker Bx 4766	TE2-9323	1100 Blain St., High Point, NC
Gurley, George Thomas	FR	AMA	Bx 4760	TE2-9323	Rt. 5 Box #52A, Goldsboro, NC
Gurley, James Charles	SO	CE	327 Turlington		111 E. Maynard Ave., Durham, NC
Gurley, Paul Landreth	SR	WT			Rt. 5, Goldsboro, NC
Guthrie, James Robert	SO	PY	348 Owen Bx 4559	834-9836	Rt. 1, Snow Camp, NC
Guthrie, Lyndon Wade	JR	TKT	2512 Clark Ave.	TE2-4843	1349 Granville, Burlington, NC
Guthrie, Ray Buren	FR	PY	Bx 3578	832-9222	215 N. Endor St., Sanford, NC
Gutierrez, Luis Edoardo	UN	GS	105 Gold Bx 5105		3913 Glenskar Ter., Charlotte, NC
Guy, Buford Mason, Jr.	SR	SEL	3100 Bragaw Bx 15329		1617 Wiltshire Rd., Salisbury, NC
Guy, Michael David	FR	TKT			Rt. 1, Maiden, NC
Gwaltney, Jay Rudolph	JR	TC	H-25 McKimmon Vill.	TE4-7895	Rt. 6 Box 713, Goldsboro, NC
Gwinn, George Richards, Jr.	FR	FOR	15 Stadium Bx 4360		2711 N. Wyoming St., Arlington, VA
Hackney, Ralph Hodges	SR	IE	4100 Bragaw Bx 15382		404 Hackney Ave., Washington, NC
Haddon, Ralph Grier, Jr.	SO	EE	205 Turlington Bx 4236	TE2-9297	3045 Idlewood Cir., Charlotte, NC
Haddon, William Winfield	SO	ME	1200 Bragaw		606 Hill St., Rocky Mount, NC
Hagan, Robert Gordon	JR	MEA	108 Gold	TE2-9263	Box 128, Maury, NC
Hagane, George Walker	SO	ARC	815 1/2 New Bern Ave.	TE4-6040	815 1/2 New Bern Ave., Raleigh, NC
Hager, David Sidney	FR	ARC	223 Tucker		300 Mauney, Mount Holly, NC
Hager, Arnold Quinn	SO	EE	314D Bragaw Box 15337		3723 Rogers St., Charlotte, NC
Haggard, Kenneth					Rt. 11 Box 157M, San Antonio, TEX
Haggard, Robert E.	SR	PL	Park Ave.		322 High Dr., Laguna Beach, CALIF
Hahn, Harold Sonny	DR	CHE	2323 Byrd		210 E. Pease Ave., West Carrollton, OHIO
Hahn, James Reid	GR	EE	104 E. Rowan St.	832-5831	104 E. Rowan St., Raleigh, NC
Hahn, Robert Christopher	FR	EE	5 Daisy St.		30-28 34th St., Long Island 3, NY
Haigh, Donald Dietrich	SR	CEC	4-308 McKimmon Vill.		900 Restmore, Statesville, NC
Haigler, Kenneth William	FR	IE	206 Tucker Bx 4679	TE2-9387	1618 Sells St., Monroe, NC
Hair, Henry Ainslie, Jr.	SO	CHE	Box 5667	TE4-9378	707 N. Main St., Mt. Airy, NC
Haire, John Durham	FR	EE	12 Becton		Box 253, Elizabethtown, NC
Haire, John Robert	SO	EE	135 Alexander		415 Sunset Rd., Fuquay, NC
Haire, Marvin Jonathan	SO	NE	417E Bragaw Bx 15187	TE4-9757	901 Henderson Dr., Jacksonville, NC
Hairr, Leland Moore	SR	PY	308 Horne St.	TE2-7050	605 S. Pineview, Goldsboro, NC
Haith, Donald Thomas	SO	ME	Bx 3813	832-9261	1305 S. Miami Blvd., Durham, NC
Haizlip, Bobby Lee	FR	A	304 Becton	TE2-9732	Rt. 2 Elon College, NC
Halberstadt, William Level	SR	EE	7 Enterprise St.	TE4-0435	712 E. Park Ave., Charlotte, NC
Hale, Gary Kent	SO	MED	304B Bragaw Bx 15315		RR 1, Hopkins Lane, Jeffersonville, Indiana
Hale, Patricia Rae	FR	ARC	2202 Garden Pl.	828-5322	117 Grace Cir., Aiken, SC
Hales, James Welton		AED	Bx 4136	TE4-9746	Rt. 2, Selma, NC
Haley, Roger Lee	FR	TKT	103 Watauga	TE2-9447	118 W. Jackson St., Mebane, NC
Halfon, Joseph					Ave de la Ref 6-64, Guatemala, CA
Hall, Alton Parker, Jr.	FR	ME	26 Dixie Trail	832-2319	2005 T St., S.E., Wash., DC
Hall, Arthur Thomas	FR	EE	103 Becton	TE2-9256	2020 Walnut St., Durham, NC
Hall, Bert Mattocke	JR	ABC	231 Alexander	TE4-9746	Rt. 2, Richlands, NC
Hall, Charles Franklin	SR	TKT	3207 Hilleboro	834-3561	315 W. 21st, Lumberton, NC
Hall, David Joel	FR	TC	257 Owen Box 4508	832-9252	324 S. 46th St., Wilmington, NC
Hall, George Howard, III	JR	FOM	222 Hillcrest Bx 5545	TE2-7708	125 Edgewood Dr., Henderson, NC
Hall, James Carlson	SO	CEC	111 Brooks Ave.	TE2-4608	210 Myrouer St., Fayetteville, NC
Hall, Jesse Willard, Jr.	SO	ME	125 Hawthorne Rd.	832-1183	Box 46, Stedman, NC
Hall, John Dwight	UN	GS	4 College YMCA		812 Barnes St., Reidsville, NC
Hall, John Vann	FR	A	212 Tucker Bx 4684	TE4-9828	Lombardy St., Aulander, NC
Hall, Julian Bailey	FR	ME	317 Owen		116 E. Glendale Ave., Mt. Holly, NC
Hall, Murrell Dean	FR	MED	Box 4680	TE4-9828	Rt. 2, Pink Hill, NC
Hall, Needham Crowell	FR	A	301 Tucker Bx 4734	TE4-9739	Wetters, NC
Hall, Ronald Dean	SO	MEA	113 Syme Bx 3513		Albemarle, NC
Hall, Thomas	GR		1508 Frank St.	TE2-3444	1508 Frank St., Raleigh, NC
Hall, William Carlyle	SO	AMA	224B Bragaw		118 Logan Ave., Plymouth, NC
Hall, William Richard	JR	CE	Gold Bx 3224	TE2-9263	Rt. 2 Box 34, Sylva, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hall, William Leslie	FR	FOR	Bx 3009	TE2-9447	Box 6 Rt. 2, Autryville, NC
Hallett, Thomas Edward, III	JR	EST	262 Fourth Bx 3120	TE2-9159	Nassawadox, VA
Hallmon, Magnus Anne	SR	ARG	231 Syme Bx 3563	832-9150	25 Pine Tree Cir., Asheville, NC
Hallman, Robert William	FW	TC	328 Syme	832-9222	935 15th St. S.E., Hickory, NC
Halverson, Oscar Ted	SR	ME	1184 Bragaw	832-9180	701 E. 3rd St., Siler City, NC
Ham, Fayllis Marie	FR	CS	1412 Lyon St.	TE3-4185	1412 Lyon St., Raleigh, NC
Hamann, Hans Bernat	SR	EST	403 Chamberlain	833-3629	Tribune, Kansas
Hambright, William Anderson, Jr.	MR	EE			241 W. Elm St., Graham, NC
Hamer, Marvin Joseph	FW	ME	117 W. Park Dr.		117 W. Park Dr., Raleigh, NC
Hamidi, Ali A.	DE	AE	J-13 McKimmon Vill.		Farah Ave., Shiraz, Iran
Hamilton, Charles Lee	SR	CE	1417 Powell Dr.	VA8-6181	715 Tussey St., Lexington, NC
Hamilton, Edward Sprunt, Jr.	FR	EE	56 Tucker Bx 4806	TE2-9236	2700 Sharon Rd., Charlotte, NC
Hamilton, Donald Everett	SO	TKT	316 Beeton	TE2-9372	2111 Ferncliff Rd., Charlotte, NC
Hamilton, James Gordon	JR	MTE	122D Bragaw Bx 15250		Rt. 2 Sharon Hills Rd., Charlotte, NC
Hamilton, Jean Antoinette	MR	TC	104 Fogue	TE3-2009	5113 Ponderosa Dr., Fayetteville, NC
Hamilton, Ralph Harvey	FR	AED	2212 Hope St.	TE2-9472	Box 724, Clinton, NC
Hamilton, Ronald Sacne	FR	EE	Bx 4718		804 Cornell St., Fredericksburg, VA
Hamlett, Roswell Woodrow, Jr.	FR	CEC	203 Tucker Box 4676	TE2-9387	1016 Mornmouth Ave., Durham, NC
Hamlin, William Fred	FR	MEA	167 Tucker	TE2-9388	2709 St. Mary's St., Raleigh, NC
Hamm, Jerry Allen	SR	TKT	455 Grissom St.		Belmont Dr., Henderson, NC
Hammack, Joseph Leonard, Jr.	FR	CE	55 Tucker Bx 4805	TE2-9237	1103 Morningside Dr., Burlington, NC
Hamme, John Valentine	SR	ORE	124 Riedick	TE4-8556	2904 Claremont Rd., Raleigh, NC
Haase, Heuben Albert	SO	MTE	101C Bragaw		1412 DeSoto Pl., Greensboro, NC
Habas, Leonard	SC	EE	Bx 4335		921 Sioux Dr., Jacksonville, NC
Hackett, Thomas Joseph	JR	TC	27 Beeton Bx 3730	TE2-9261	120 Tremont Dr., Asheboro, NC
Hackney, Gerald Herman	LC	ME	1508 Hillsboro St.	TE2-6153	Rt. 1, Box 20, Conover, NC
Hackney, George Franklin	FR	ARC	Bx 3342	832-9131	1012 Knox St., Durham, NC
Hammersia, George Donald, Jr.	JR	MEA	4-15 MSH		364 6th St. N.W., Hickory, NC
Hammons, Clifford Marvin	JR	ME	333 Turlington	TE2-9192	Rt. 2, Rowland, NC
Hampton, Benny Bryant	SR	AED	216 Watauga Bx 3034		Rt. 1 Box 69, Elkin, NC
Hamrick, Cline Borders	JR	ASD	13 Maiden Lane		Rt. 2, Shelby, NC
Hamrick, David Lawrence	FR	ENG	Bx 4545		120 Rosebud St., Elizabeth City, NC
Hamrick, James Ray	SR	AMA	13 Maiden Lane		N. Main St., Boiling Springs, NC
Hamrick, James Lewis	JR	FOR	209 Bagwell Bx 3341	TE2-9131	8500 Lockhart Rd., Richmond, VA
Hamrick, Joseph Marshall	SR	SEL	W4L Trailer Haven		Rt. 2, Shelby, NC
Hamrick, Max John	FR	FOR	13 Maiden Lane		Rt. 3, Shelby, NC
Hamrick, Victor Benjamin	JR	MEA	204L Bragaw Bx 15266		Box 3, Stanley, NC
Hamron, Mooramad	JR	APY	104 Harris St.	832-4655	Djalar Surapati, ii, Bandung, Java Indonesia
Hancannon, Joseph David	SO	EE	202 Alexander Bx 4134	TE4-9746	11749 Francis Drake Dr., Jacksonville, Florida
Hancock, Earl Watson	FR	CS	Owen Bx 4587		Rt. 3, Reidsville, NC
Hancock, John Alan	SR	FY	2208 Anderson Dr.		114 Borden Ave., Wilmington, NC
Hancock, Joseph Cameron	SC	AGI	351 Owen Bx 4562		Rt. 5, Lexington, NC
Hancock, Thomas DeCosta	SC	TAT	329 Syme Bx 3593	TE2-4222	Rt. 2, Nebo, NC
Hanes, Donald Gray	JR	TAT	8 Ferndale Lane	TE2-1755	1504 Parkview Cir., Salisbury, NC
Hanes, Roger Eugene	JR	SUI	5655 Western Blvd.	TE4-0931	Rt. 1, Yadkinville, NC
Hanford, Ransom Billy	JR	EE	2 Beeton Bx 3804	TE2-9261	933 Lehman St., Henderson, NC
Hanington, Richard William	SC	ATE	217 Tucker		11 Raymond St., Rockville Centre, NY
Hansen, Harold Eugene	SC	EE	1 1/2 Dixie Trail		619 Railroad Ave., Troy, NC
Hansen, Philip	SC	EE	205D Bragaw Bx 15060	TE2-9185	Mechanic St., Hoodsick Falls, NY
Harbo, Samuel James, Jr.		EST	4701 Western Blvd.		4701 Western Blvd., Raleigh, NC
Hardage, Thomas Brantly	SC	ASZ	Syme Bx 3623	TE2-9421	Box 51, Norlina, NC
Hardee, Mikael Allen	SR	MEA	212 Alexander Bx 4141		105 E. Leonard, Southport, NC
Harden, Holmes	JR	ME	2402 1/2 Stafford Ave.	833-4292	Box 1006, Burlington, NC
Hardie, Robert Lamar	SO	AED	604 Frances Dr. Garner		Clarendon, NC
Hardie, William Guthrie	FR	FOR	175A N. Boudry		Rt. 1, Box 214, Clarendon, NC
Hardin, Jimmy Wesley	SC	ATE	115 Hawthorne Rd.	828-7790	Rt. 1 Box 105, Lumberton, NC
Hardin, Susan Lane	JR	EE	112 Cox Ave.	VA8-5968	2237 Acacia Dr., Wilmington, NC
Harding, Raymond Benjamin	FR	FY	17 Bagwell Ave.	TE3-6802	17 Bagwell Ave., Raleigh, NC
Hardison, Bernice L.	FR	AGI	202 Tucker Bx 4675		RFD 1, Plymouth, NC
Hardison, Leon Thomas	JR	CE	1111 Nichols Dr.	VA8-8859	RFD 1 Box 261, Plymouth, NC
Hardison, Ted Julius	SR	ABO			Rt. 2, Edenton, NC
Hardison, Thomas Elliot	FR	ENG	Bx 4784	TE2-9323	Rt. 1, Jamesville, NC
Hardister, John Paul	JR	ABC			104 Cedar Ave., Kannapolis, NC
Hardy, Jack Louis	SC	EE	218A Bragaw Bx 15290		3600 Highview Rd., Charlotte, NC
Hardy, Richard Beeton	FR	F	13A Tucker	TE2-9388	308 W. Railroad, LaGrange, NC
Hardy, Thomas Lehmulla	JR	EE			1838 Forest Rd., Durham, NC
Harlow, James Edwin	JR	ME	326D Bragaw Bx 15362		Box 2477, Gastonia, NC
Harman, John Holt	FR	ENG	911 Brooks Ave.	TE3-2431	RR 2 Box 177, Littleton, NC
Harmer, Michael Joseph	SC	ABC	259 Tucker Bx 4726	TE2-9387	1333 Peabody St., NW, Wash., DC
Harmon, Samuel Douglas	SO	EE	221A Bragaw		Rt. 1, Mathews, NC
			405D Bragaw Bx 15160	TE4-9757	236 8th St., S.W., Hickory, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Harper, Herman Earl, Jr.	SO	MEA	2709 Clark Ave.	828-7883	1911 Carey Rd., Kinston, NC
Harper, James Staton, Jr.	PRO	FUM	Owen Bx 4569	TE4-9300	205 Crescent Ave., Rocky Mount, NC
Harper, John Blots	SR	ME			908 Market St., Burlington, NC
Harper, Patrick Henry	FR	ME	309A Bragaw	TE4-9179	Rt. 4, Kinston, NC
Harper, Ronald Miller	FR	E	322 Tucker Bx 4753	TE2-9323	Rt. 1, Clemmons, NC
Harrarwood, Paul	DR	CE			105 W. Woodridge Dr., Durham, NC
Harrall, James Preston	SO	AGI	Alexander Bx 4132		Rt. 1, Stantonsburg, NC
Harrall, Oscar B.	JR	ME	Bx 4574		RFD 1 Box 519, Suffolk, VA
Harrall, Sam Pierce, Jr.	JR	PMH	110 Gold Bx 3210	TE2-9263	518 W. Wade St., Wadesboro, NC
Harrall, Jackie Webster	JR	ABO	305 Gold Bx 3229		Rt. 3 Box 106B, Edenton, NC
Harrelson, James Charles	SR	AMA	702 W. Morgan St.	834-8866	142 E. Salisbury, Asheboro, NC
Harrelson, Lewis Gardner	SR	AGI			Rt. 1, Shelby, NC
Harrelson, Reginald Curtis	SO	GEE	Bx 5191		301 Thompson St., Hendersonville, NC
Harrelson, Roy Donald	SO	IA	1-24 MGH	834-2415	Rt. 1 Box 46A, Clarkton, NC
Harrill, Thomas Dewey	FR	EE	261 Tucker		282 8th Ave., Cramerton, NC
Harrington, Cecil Frank	FR	MED	2403 Country Cl. Ct.		218 Forest Hill Ave., Winston-Salem, NC
Harrington, James Oliver, III	SO	IA	157 Tucker		1224 Magnolia St., Winston-Salem, NC
Harris, Alton Terrill	SR	IE	K-24 McKimmon Vill.	834-2470	209 Vance St., Laurinburg, NC
Harris, Alva Howard	DR	AEC	930 Jones Ave.	834-3965	930 Jones Ave., Raleigh, NC
Harris, Benjamin Albert	JR	CEC	103 Chamberlain	828-6067	4029 Skyland Dr., Kingsport, TENN
Harris, Garland Luther, Jr.	FR	CE	Berry Bx 4332	TE2-9363	Rt. 4 Box 419, Jacksonville, NC
Harris, George Edwin	JR	MEA	2316 Hillsboro St.	TE3-5587	718 Georgia Ave., Forest City, NC
Harris, Glen Stuart	SO	FOM	110A Bragaw		Main St., Wakefield, VA
Harris, Harvey Douglas	SR	RPA	P-119 KSH		Rt. 1, Kittrell, NC
Harris, John Franklin	SR	ME	14 Henderson St.	TE4-6883	306 W. Marry St., Shelby, NC
Harris, Reginald Lee	SO	TXT	210 Gold		187 Church St., Elkin, NC
Harris, Richard Edgar	SO	ASB	314 Alexander Bx 4177		Box 281, Morehead City, NC
Harris, Robert Joseph, Jr.	SR	ABA	1208 College Pl.	TE2-6716	1208 College Pl., Raleigh, NC
Harris, Robert Willard	JR	TC	2341 Bernard St.	834-8109	NC-1233, Old Fort, NC
Harris, Ronald Benson	FR	EE	301 Owen Bx 4518	834-9836	1200 Tarboro St., Rocky Mount, NC
Harris, Roger Noel	GR	AGC	403 Chamberlain	833-3629	22 DeParys Ave., Bedford, England
Harris, Roy Wayne	FR	ME	Bx 4146	TE4-9746	Rt. 1 Box 50, Hatteras, NC
Harris, Thomas C. H.	MR	AMA	610 Ralph Dr.	834-5141	610 Ralph Dr., Raleigh, NC
Harris, Thomas G., Jr.	SO	FOM	216 Alexander		421 Rightmyer Dr., Roanoke Rapids, NC
Harris, Van Taylor	JR	ATO	1702 Hillsboro		Box 430, Williamson, NC
Harris, Vernon Oswald, Jr.	FR	CE	135 Tucker Bx 4645	TE2-9388	341 W. 13th St., Warrington, NC
Harris, William Brothers	SR	ABA			Oriental, NC
Harris, William Howard	JR	EE	1809 Park Dr.		101 Carroll St., Windsor, NC
Harris, William Thomas	PRO	ARC	1821 Glenwood Ave.		2610 Carver St., Durham, NC
Harrison, Cecil Alvin	JR	EE	1418 Wake Forest Rd.	828-4192	4444 Sherwood, Baton Rouge, LA
Harrison, Lale Elliott	MR	BO	706 Powell Dr.	833-3546	706 Powell Drive, Raleigh, NC
Harrison, Ernest, Jr.	MR	AFY	828 Greenwich	828-6887	828 Greenwich St., Raleigh, NC
Harrison, James Lawrence	FR	EE	251 Owen Bx 4502	932-9252	4238 Hillside Ave., Charlotte 9, NC
Harrison, Robert Clarke	JO	HPT	2250 Bragaw Bx 15099	TE2-9185	Qtrs. 2932, Ft. Luskis, VA
Harron, James Gaston	JR	EE	803 Chamberlain St.		Waverlyville, NC
Hart, Franklin Delano	DR	ME	6001 Hillsboro Rd.	TE3-1110	Rt. 2, Angier, NC
Hart, Ladson Frederick	SO	FOR			411 Waverlyville, NC
Hart, Philip Leighton, III	FR	TAT	Bx 4674	TE4-9828	A5-94 Twin Castles Apts., Winston-Salem, NC
Hart, Radford Hughes	JO	MEA			Rt. 7, Raleigh, NC
Hart, Ralph William	SR	IE	299 Wade Ave.	TE4-4273	Lansing, NC
Hart, Thomas Wesley, Jr.	JO	ATP			Rt. 4 Box 308, Sanford, NC
Hartenstein, Gregory George	SO	EE	606 S. Boylan Ave.		Rt. 3, Tiffin, OHIO
Hartgrove, Robert Hughes	FR	EE	127 Owen Bx 4511	TE4-6115	2705 Gilmer Ave., Winston-Salem, NC
Hartman, Charles Frederick	FR	AT	2231 Whitman Rd.	TE3-4860	2231 Whitman Rd., Winston-Salem, NC
Hartnett, John Joseph	MR	FOY	P-208 McKimmon Vill.		33 Smith St., Glen Head, NY
Hartsell, Harry Woodrow	SO	MEA	404A Bragaw	TE4-9154	236 Grandview Dr., Concord, NC
Hartsell, Lloyd Forrest	SO	CEC	301 Tuckerton		312 N. Randolph St., Rockingham, NC
Hartsell, William Newell, Jr.	HMC	ME	180A Bragaw Bx 15112		Rt. 1, Waverlyville, NC
Hartwell, Tyler David	GR	EST	Rt. 4	TE4-1156	2049 Beverly, Berkeley, MICH
Hartzell, Cleon Leonidas	FR	EE	625 Georgetown Rd.	833-8626	884 New York Rd., Atsecon, NJ
Hartzege, George William	JR	EE	1124 21st St.	TE4-1413	932 4th St. Dr. N.W., Hickory, NC
Harvel, Roy Harrison	SR	TAT	6311 Hillsboro Rd.		Box 164, Biscoe, NC
Harvey, Amos C.	JR	IE	906 Auklan Rd.	328-5128	213 Fulton, Wilmington, ILL
Harvey, James Raymond	JR	TAT	5124 W. Lakeside Dr.	828-4214	1020 Highland, S. Pasadena, CALIF
Harward, Charles Ned	JR	FW	Rt. 7, Raleigh		Haleigh, Rt. 7, NC
Harward, Charles Roberson	SO	CEC	3821 Western Blvd.	TE2-2968	2414 Liberty Rd., Greensboro, NC
Hasek, John Reed	FR	ARC	21 Waverlyville Bx 15099		1553 Crescent Dr., Kingsport, TENN
Haskell, George Hume	SR	TAT	1100 Bragaw Bx 15099		Rt. 2, Laurel Hill, NC
Haskins, David Philip	SO	AFY	4100 Bragaw Bx 15099		4100 Bragaw Bx 15099, NC
Haskins, Paul Douglas	SO	CHE	120 Owen		Oak Forest Dr., Kernersville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hassar, Matila Yassin	GR	CL	1004 Tower St.	833-5066	1004 Tower St., Raleigh, NC
Hassell, James Clyde	JK	ME			Manteo, NC
Hastings, Clinton Perry	JR	CHE	306 Watauga Bx 3042		Box 278, Clarksville, VA
Hastings, Felton Leo	LK	ENT	K-22 McKimmon Vill.		Rt. 1 Box W, Foley, ALA
Hastings, Harris Freeze		FD	34-24 Bellevue Rd.	VA8-6992	3424 Bellevue Rd., Raleigh, NC
Hatch, Donald Ellsworth	JK	FOM	5 Rosemary St.	TE2-9725	731 Jefferson Pl., Petersburg, VA
Hatnack, John Nathan	MR	HOC	Box 176, Cary	TE4-1374	Rt. 1 Box 176, Cary, NC
Hauser, David Thomas	FR	CE	67 Owen Bx 4600		Rt. 1, Shattalon Cir., Winston-Salem, NC
Haulk, Charles Jackie			1115 Bragaw		207 Big Springs Ave., Forest City, NC
Hauser, Edwin Wilbur	ER	CE	3800 Western Blvd.	VA8-8952	Box 96, Lewisville, NC
Hauser, John Reid		GS	912 Lambeth Cir.		912 Lambeth Cir., Durham, NC
Haviland, James Roger			821 Wake Forest Rd.		Rural, Chatfield, OHIO
Havener, David Lee		TEL	Ex 15335		West 1st Ave., Collegeville, PA
Hawkins, Clarence Pemberton	FR	MEA	230 Becton	TE2-9334	Box 338, Pine Level, NC
Hawkins, Samuel Glenn, III	JR	CE	2303 Clark Ave.		187 Washington Ln., Concord, NC
Hawkins, George Michael	JR	ME	224 Becton Bx 3758		Box 132, Cliffside, NC
Hawkins, George Wilbur	MR	AGE			Rt. 4, Raleigh, NC
Hawkins, Jerry Kay	FR	ASL	1301 Hillsboro St.		Rt. 1, Chesnee, SC
Hawkins, Benjamin Donald					121 Military St., Oxford, NC
Hawks, Elizabeth Anne	FR	ASZ	18 Dixie Tr.	TE3-0056	18 Dixie Trail, Raleigh, NC
Hayes, Charles Edwin	FR	FOR	Bx 4418	TE2-9437	RFD 1, Jamesville, NC
Hayes, Edward Dwight	JR	ME	126 Owen Bx 4421	TE2-9115	Rt. 2 Box 34, Boonville, NC
Hayes, George Marvin	FR	SE	203 Tucker Bx 4676	TE2-9387	1134 DeLano St., Durham, NC
Hayes, Oliver Thomas, III	JR	MTL			2508 Miller Park Cir., Winston-Salem, NC
Hayes, Michael Mey	SO	EE	606 S. Boylan Ave.		218-11th St. S.E., Massillon, OHIO
Hayes, Wilbur Ronald	FR	AED	124 Tucker Bx 4635	TE2-9367	Nakina, NC
Haynes, Michael Dewey	SO	EE	107B Bragaw Bx 15014		Nags Head, NC
Haynes, Colon Wayne, Jr.	SO	EE	3200 Hillsboro St.		Rt. 2 Box 378, High Point, NC
Haynes, Gary Dennis	FR	ARC	314 Tucker	TE4-9739	Rt. 1 Box 70, Jamestown, NC
Haywood, Dewey McManus	SR	ABF	128 Alexander Bx 4123	TE2-9257	Providence Rd., Waxhaw, NC
Haywood, Robert Allyn	FR	EE	161 Owen Bx 4452	832-9115	3510 Rose of Sharon Rd., Durham, NC
Hayworth, Frank Calvin	SR	ME	107 Henderson St.	VA8-3165	107 Henderson St., Raleigh, NC
Hayworth, George William	SR	RPA	Ex 15241	TE2-8180	Rt. 1, High Point, NC
Heap, Mickey Philip	GR	CE	311 Turlington Bx 4273	TE2-9192	Box 246, Matthews, NC
Healy, Jerry Vincent	GR	EE	127 Hawthorne Rd.	TE4-5838	210 N. Page St., Sou. Pines, NC
Heaney, James Alfred	SO	EE	Bx 3376	834-9181	1416 Mayfair Rd., Jacksonville, FLA
Heath, Bobby Sutton	SR	ATC	320 Alexander Bx 4183	TE2-4349	RFD 1, Trenton, NC
Heath, Joel Christopher	JR	EE	303 A Bragaw Bx 15104		106 Glenburnie Dr., New Bern, NC
Heath, John Emery	SR	ARC	6 Enterprise St.	TE2-4988	Rt. 1, Charmeldee Acres, Blk. Mtn., NC
Heath, Raymond Alonzo	FR	CE	1 Berry Bx 4334	TE2-9350	Rt. 1, McCoy Cove Rd., Blk. Mtn., NC
Heath, Silas Ervin	SO	IA			Rt. 1, Pink Hill, NC
Heath, William Henry	SO	ATI	115 Owen Bx 4410	TE2-9115	Rt. 1, Hookerton, NC
Heavner, Loy Charles	FR	ME	Ex 4199	TE2-9349	Rt. 2 Box 614, Connelly Springs, NC
Hedgecock, James Stanley	FR	FOR	Tucker Bx 4765	TE4-9739	Rt. 1 Box 180A, High Point, NC
Hedrick, James Lupton	MR	AGC	812 Peyton St.	833-5264	812 Peyton St., Raleigh, NC
Hedspeth, Luther William, Jr.	GR	ATE	3021 Leonard St.		RFD 1, Conway, NC
Hedspeth, Samuel Dillon, III	JR	IA	3021 Leonard St.	828-6654	Conway, NC
Heeden, George Lee, Jr.	GR	PD	495 Gold Bx 3217	TE2-9263	105 Raleigh Rd., Wilson, NC
Hege, Raymond George	GR	IA	18 1/2 Horne St.	TE2-6164	1316 W. Clemmonsville Rd., Winston-Salem, NC
Hege, Robert III	SO	ATE	59 Owen Bx 4593	TE2-9142	Rt. 8 Box 246, Lexington, NC
Heggan, Ernest	FR	A	Becton	TE2-9334	Central Ave., Blue Anchor, NJ
Heggie, Alexander Palmer, Jr.	FR	ARC	10 Becton Bx 3812	832-9261	407 Aberdeen Ter., Greensboro, NC
Heinbockel, John Henry	LR	AMA	3409 Cherry Lane	TE3-8655	3409 Cherry Lane, Raleigh, NC
Heinsohn, Henry George	SO	FY	841 Cranbrook Rd.	TE4-0058	841 Cranbrook Rd., Raleigh, NC
Heinstein, Peter F.	MR	ANS	3815 Greenleaf St.	933-1354	3815 Greenleaf St., Raleigh, NC
Heitmann, John Adolph, Jr.	FR	FOR	309 Tucker Bx 4742	TE2-9323	2613 Bismark Ave., Savannah, GA
Helderman, Nathan Vriel	GR	MEA	1508 Frank St.		Rt. 9 Box 2, Charlotte, NC
Helming, Paul Andrew	SR	FY	4190 Bragaw Bx 15192	TE4-1667	101 Glenwood Rd., Morganton, NC
Helms, Brian Belk	GR	MTL	2705 Avenet Perry Rd.	TE3-9635	524 Ashland Dr., Greensboro, NC
Helton, Berny Wallace	MR	SE	Rt. 1, Cary	467-1583	706 Rhodes Pk. Dr., Hendersonville, NC
Helton, Thomas F.	SO	MRA	212 Lafayette	VA8-4950	Rt. 2, Ellenboro, NC
Heltzel, Roy Franklin	GR	AGC	1003 Nichols St.	834-7678	133 Carr Ave., Culppeper, VA
Hembree, Stephen Carson	JR	AMA	D-314 McKimmon Vill.		Rt. 1, Murphree, NC
Hemler, Richard James	MR	ME	W&L Trailer Haven		RD 6, Gettysburg, PA
Hemric, Carl Dewitt	CO	ME	216A Bragaw		Rt. 2, Dobson, NC
Hemphill, James Calvin	FR	ME	150 Owen Bx 4441	TE2-9437	954 Granville Rd., Charlotte, NC
Hemphill, William Max	FR	ARC	204 Tucker Bx 4677		416 Willow, Marion, NC
Henderson, Joe Adams	FR	ARC	310 Watauga		1421 Watauga St., Kingsport, TENN
Henderson, Lawrence Ray	GR	SW	114 Alexander	TE2-9257	587 Broadway St., Hendersonville, NC
Henderson, Louis Leonard	GR	ASL	2226 Hillsboro	TE2-2584	Maxton, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Henderson, Robert Bronson	FR	EE	Bx 15185		Ht. 1 Box 113, Lex. Park, MD
Henderson, Stephen Paul	JR	ME	1620 Hillsboro	834-9378	117 Bennington Rd., Charlottesville, VA
Henderson, Thomas Henry	SO	EE	1720 Hillsboro St.	VA8-9200	203 N. Harding St., Greenville, NC
Henderson, Thomas Otis	FR	BAC	5228 Vann St.	TE3-6812	1533 10th St. Pl. N.W., Hickory, NC
Hendley, William Joseph	MR	AMA	3409 Bellevue Rd.	828-8034	2910 E. Geer St., Durham, NC
Hendon, Robert Vance	FR	POR	148 Tucker	TE2-9388	614 Anniston Ave., Piedmont, ALA
Hendrickson, Edwin Francis, Jr.	FR	EE	4-310 McKimmon Vill.	833-7087	2 Lincoln Ave., Glen Head, NY
Hendrickson, Robert George	FR	GS	207 W. Park Ave.		2808 Loch Dr., Winston-Salem, NC
Hendricksen, Gerhard Chester, Jr.	UN	GS			216 Forest Wood Dr., Durham, NC
Hendricks, Robert Vincent	FR	PPT	325 Tucker Bx 4756	TE4-9739	1719 Oak St., Georgetown, SC
Hendrix, James William	DR	PF	1518 Ashburton Rd.	TE2-6955	2101 Evans St., Greenville, NC
Hendrix, Michael Allan	SO	ASW	229 Section	TE2-0934	1213 Grayland St., Greensboro, NC
Hennis, Charles Harvey	JR	ME	Bx 5667	TE4-9378	245 Country Club Rd., Mt. Airy, NC
Henriksen, Harold Eugene, Jr.	JR	ATI	103 Chamberlain St.		5015 Pine St., Wilmington, NC
Henry, David Carl	SO	ASV	1103 Southerlund Rd.	TE3-9309	1103 Southerlund Rd., Raleigh, NC
Hensley, Daniel Steve	JR	OTE	4006 Greenleaf St.		Pres. Home, Black Mtn., NC
Hentschel, Siegfried Heins	FR	CE	Bx 4351		131 Bremer St., Fayetteville, NC
Heppler, Wilson Hill	JR	ME			Rt. 3 Box 301, Thomasville, NC
Herlocker, Gary Wayne	FR	AGI	305 Turlington	832-9192	Ht. 1 Box #6, Albemarle, NC
Herlit, David Edward	JR	PPT	323B Bragaw Bx 15146		Lake St., Stillwater, NY
Herman, Gary Long	SO	ME	2512 Clark Ave.	TE2-4843	818-10th Ave. NE, Hickory, NC
Herron, Ronald Ernest	FR	EE	132 Tucker Bx 4643	TE2-9388	7100 Claymore Ave., Hyattsville, MD
Herring, George Edward	FR	A	341 Tucker Bx 4771	TE4-9739	Rt. 2 Box 26, Goldsboro, NC
Herring, Troy, III	SO	ARC	D-21 MSH	832-2818	Box 455, Roseboro, NC
Herrington, Sidney Walter	JR	NE	326 Bagwell Bx 3392	TE4-9151	107 E. Church St., Williamston, NC
Herter, Alice Edith	SO	ARC	8 Maiden Lane	TE4-5089	Rt. 2, Lincolnton, NC
Hertzler, Richard Anthony	FR	EE	Tucker Bx 4726	TE2-9387	1529 N. Glebe Rd., Arlington, VA
Hester, Boyce Lee	FR	IE	UK 22, Vetville	834-2607	Rt. 2 Box 150, Gastonia, NC
Hester, William Thomas	SR	TXT	1227 Duplin Rd.	833-6755	1227 Duplin Rd., Raleigh, NC
Hewett, Robert Douglas	SO	ME	P-321 McKimmon Vill.		110 Alabama Ave., Wilmington, NC
Hewlett, Thomas Woodrow	GR	PY	203 Gold Bx 3215	TE2-9263	2606 Warwick Cir., Atlanta, GA
Hibbard, Lowell	SO	EE	1101 Carolina Pines	828-6650	1101 Carolina Pines Ave., Raleigh, NC
Hicks, Bobby Edward	FR	EE	4201 James Rd.	TE4-6556	4201 James Rd., Raleigh, NC
Hicks, Dale Fidel	JR	EE	303 E. Whitaker Mill	828-5873	303 E. Whitaker Mill Rd., Raleigh, NC
Hicks, Graham Douglas	FR	FR	267 Owen Bx 4517		Rt. 3, Roseboro, NC
Hicks, Joel Gibson	SO	EE	2512 Clark Ave.	TE2-4843	1514 Hawthorne Rd., Winston-Salem, NC
Hicks, John Dudley, Jr.	GR		Q-208 McKimmon Vill.		1206 10th St., Hartsville, NC
Hicks, Marvin George	MR	TXT	2630 Avenet Ferry Rd.		2321 Waverly Rd., Charlotte, NC
Higdon, Earl Dills, Jr.	JR	ME	314 Section	TE2-9376	Box 68, Haverhill, NC
Higginbotham, Dorothy Janice	FR	ASH	110 E. Park Dr.	TE4-4245	Blue Ridge Rd., Black Mtn., NC
Higgins, Malachi Edward	GS		315 Tucker		24 Dater Ave., Saddle River, NJ
Higgins, Obed Paul, III	FR	POR	360 Owen Bx 4571	834-9836	Waverly, VA
High, Sidney Raymond	FR	FOM	302 Owen		1406 Summit, Fayetteville, NC
Highfill, Hilda Austin			613 Buck Jones Rd.	TE2-6903	613 Buck Jones Rd., Raleigh, NC
Highsmith, James Albert, III	FR	EE	Bx 4538	TE4-9300	2315 Wensley Dr., Charlotte, NC
Highreth, George Winslow	JR	ME	Alexander Bx 4148	TE4-9746	Rt. 2 Box 258, Wadesboro, NC
Hill, Alfred Lee	SR	ME	130 Woodburn	TE4-8068	805 Greenleaf, Eliz. City, NC
Hill, Buster Ivan	FR	CE	221 Tucker	TE2-9387	707 Willoughby Tr., High Point, NC
Hill, Daniel Edward	SO	AGI			Rt. 1, Kinston, NC
Hill, David Bennett	SO	ME	304 Turlington	TE2-9192	Rt. 2 Box 35, Wadesboro, NC
Hill, David Glenn	SO	ME	332 Owen Bx 4547	TE4-9300	Rt. 2, Marshville, NC
Hill, Dorothy Ann	UN	ED	1614 Oberlin Rd.	TE2-2972	1614 Oberlin Rd., Raleigh, NC
Hill, George Floyd	SR	CE	1213 1/2 Dixie Tr.	TE3-7213	Rt. 6, Goldsboro, NC
Hill, Glenn Rockwell	JR	CE	305 Berry		White Sulphur Springs, NY
Hill, Herbert Hewett	GR	ME	4300 W. Galax Dr.	833-5182	4300 W. Galax Dr., Raleigh, NC
Hill, Hugh Michael	JR	MEA	1709 Hillsboro St.	TE3-6901	1001 Centennial, High Point, NC
Hill, J. B., Jr.	FR	MEA	209E Bragaw Bx 15068		21 New Clyde Rd., Canton, NC
Hill, James Riley, Jr.	LR	ANS	3006 Mayview Rd.	TE4-0698	Box 74, Abbeville, SC
Hill, John Courtney	SR	IA	1703 Fairview Rd.	TE2-0650	1703 Fairview Rd., Raleigh, NC
Hill, Lebert Woodward	SO	EE	611 S. Boylan Ave.	832-7527	1916 Cleveland St., New Bern, NC
Hill, Michael Lee	SO	ME	815 W. Johnson St.	VA8-2450	815 W. Johnson St., Raleigh, NC
Hill, Owen Robert	JR	TXT	217B Bragaw Bx 15081	TE2-9185	803 Isabelle St., Knapolis, NC
Hill, Phillip Dwight	FR	GS	3 Stadium Bx 4348	TE2-9447	Rt. 1 Box 106, Youngsville, NC
Hill, Richard Frank	SR	ME	2600 1/2 Mayview Rd.	828-7902	301 Royal Pines Dr., Arden, NC
Hill, Robert Edward	JR	EE	502 Tilber	TE2-5344	Rt. 1, Arden, NC
Hill, Robert Paul	SO	CH	305 Bagwell Bx 3371	834-9151	601 Broad St., Shelby, NC
Hill, Stephen Hugh	JR	EE	2514 Hillsboro St.	833-0821	Rt. 4, Albemarle, NC
Hill, Walter Wells	JR	EE	Welch Bx 3242	TE2-9119	509E High St., Murfreesboro, NC
Hill, Winfred Norman	FR	TXT	Bx 3735	TE2-5334	Rt. 3, Waverly, NC
Williard, Garland Kermit	SR	IA	803 Brooks Ave.	TE2-9961	803 Brooks Ave., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hillard, Herbert Lee, Jr.	FR	ADI	221 Alexander Bx 4150	TE4-9746	Rt. 1, Willow Springs, NC
Hilton, Charles Vernon	W	SE	326 Burlington Bx 4288		Rt. 4, Thomasville, NC
Hilton, Wally Vernon	FR	SE	165 Owen Bx 4456	TE2-9115	Rt. 9 Box 152, Greensboro, NC
Hine, Colon E., Jr.	W	SE	1-1 Alexander Bx 4126	TE2-9257	2381 Sprague St., Winston-Salem, NC
Hines, John Stephen	W	TAT	1080 Bragaw Bx 15225	832-9180	709 E. Main St., Spindale, NC
Hines, Thomas Blair	W	APA	St. C	TE4-9907	Rt. 6, Raleigh, NC
Hines, Thomas Joseph	FR	SE	127 W. Park Dr.		3448 N. Stone St., Phila., PA
Hinshaw, Larry Lewis	FR	TXT	129 Sycam Bx 3529		2014 S. Mebane St., Burlington, NC
Hinson, Sam Neal	W	APA	249 Ironwood Ave.		315 S. Green St., Wadesboro, NC
Hinson, Gerald Ray	W	SE	3800 Western Blvd.	828-8952	Rt. 1 Box 208, Wadesboro, NC
Hinson, David Ward	W	NEA	1908 1/2 Park Dr.	828-5838	1908 1/2 Park Dr., Raleigh, NC
Hinson, Henry Dillard	W	IA	4-21 N.W.	TE3-6556	Box 1106, Rocky Mount, NC
Hinson, Jackson Owen, Jr.	W	APA	125 Cox Ave.		518 Sterling St., Greensboro, NC
Hinson, David Owen	W	SE	1304 Hillsboro St.		1304 Hillsboro St., Raleigh, NC
Hitchcock, Frederick Coleman	W	APA			611 Woodland Dr., Greensboro, NC
Hite, Milton Leroy, Jr.	W	NEA	306A Bragaw		3109 Clark St., Charlotte 5, NC
Hobbs, Alfred Scales	W	RS	106 Farr Ave.	834-436	Rt. 2, Newton Grove, NC
Hobbs, Clarence Wharton, III	W	ME	Bagwell ex 3385		1124 Guilford Ct., Charlotte, NC
Hobbs, LaFloyd Hueston, Jr.	W	DR	4215 Galax Dr.	TE2-5075	Box 5682, Raleigh, NC
Hobbs, Milton Ernest	FR	ME	216 Buck Jones Rd.	TE4-1488	216 Buck Jones Rd., Raleigh, NC
Hobgood, Henry Mack	W	ALD	Syme Bx 3542	TE2-9150	Stem, NC
Hobson, David Clark	FR	SE	Ex 3014	TE2-9447	Box 119 Rt. 4, Dunn, NC
Hocutt, Julius Henderson	W	ME	Ex 4456		5442 Robinhood Rd., Charlotte, NC
Hogden, Raymond Fallon	FR	NEA	Alexander Bx 4162	TE4-9746	Yuma Test Station, ARIZ
Hogden, Donald David	W	APA	Att. 2, Wendell	F05-5761	Rt. 2 Box 241, Wendell, NC
Hogges, Albert Haggard	W	NE	3433 Hammer Rd.	833-9126	304 Front St., Belhaven, NC
Hogdes, Jerry Lee	W	FRM	2338 Mcullan Cir.	833-1045	100 Carolina Ave., Lexington, NC
Hogges, William Henry	FR	ME	533 Barksdale Dr.	TE2-2158	Rt. 1, Dover, NC
Hogges, Thomas Chester	W	AD	224 Woodberry		2811 Lily Lane, Alexandria, VA
Hogges, Preston Elwood, Jr.			2410 Fairview Rd.		2410 Fairview Rd., Raleigh, NC
Hodges, Ronald Wade	W	SE	308 Horne St.	TE2-7050	1069 S. Hawthorne Rd., Winston-Salem, NC
Hodges, Walter Alex	FR	SE	250 Owen	TE2-9252	Box 462, Farmville, NC
Hoell, James Monroe	W	FD	C-18 McKimmon Vill.	TE2-3330	535 Jefferson St., Rocky Mt., NC
Hoffmann, David David					420 Kingsbury, Oxford, NC
Hoffmann, Theodore Charles	W	FD	2609 Wade Ave.	VA8-2754	2609 Wade Ave., Raleigh, NC
Hoffmeyer, James Arlene	FR	LE	303 E. Whitaker Mill	VA8-5873	Deshler, NEB
Hofley, Woodrow Perry	W	CEC	Box 4444	832-9115	Hobbsville, NC
Hoke, Wade Everette	W	CE	416A Bragaw Bx 15392	TE4-9754	Rt. 6, Statesville, NC
Holbrook, Richard L.	FR	ME	N-24 McKimmon Vill.	TE4-7995	12019 Wilshire, Detroit, MICH
Holden, Alexander Stallings	W	FD	411A Bragaw		119 Norwood St., Lenoir, NC
Holter, William Frank	W	BY	Bx 4791		5256 Hartford, Charleston, SC
Holder, Charles Delbert	W	HT			2518 Wash. St., Wilmington, NC
Holser, Charles Robert	W	LE	110 Weldon Bx 3246	TE2-9119	3628 Milhaven Rd., Winston-Salem, NC
Holder, Daniel Riley	W	WV	2805 Kilgore Ave.	TE2-1962	2805 Kilgore Ave., Raleigh, NC
Holder, David Arthur	W	LE	2805 Kilgore Ave.	TE2-1962	2805 Kilgore Ave., Raleigh, NC
Holder, Steven Monroe	W	ATE			Rt. 2, Liberty, NC
Holder, Tracy Lee	W	ATE	A-22 McKimmon Vill.		Rt. 1, Edwin, NC
Holjes, Meldon Aitken, Jr.	FR	SE	2713 Everett Ave.	TE3-1312	5510 Friendly Rd., Greensboro, NC
Hollahan, Eugene			J38 Cameron Ct.	828-3798	1048 Rayner, Memphis, TENN
Hollan, Charles Lee	W	NEA	102 Bagwell Bx 3302	TE4-9219	Rt. 3 Box 183, Shelby, NC
Holland, Charles Sidney, Jr.	W	ENG	134 Syme		607 Young St., Henderson, NC
Holland, Donald Benson	W	CE	319 Ecton		138 Vance St., Roanoke Rapids, NC
Holland, Edward Gary	W	ARC	213 Syme		311 Shepherd St., Raleigh, NC
Holland, Edward Lee	W	ADA	105 Bagwell Bx 3305	TE4-9219	Warsaw, NC
Holland, Richard Turner, Jr.	W	ADA	Central Res. Sta.		Rt. 1, Turkey, NC
Hollaway, Jerrell Fern	FR	LE	Rt. 1, Cary		Box 114, State Road, NC
Holley, Daniel Lester	W	POW	1605 Pineview St.		Rt. 5, Darlington, SC
Holley, Richard Howard	W	HT	216 Tucker Bx 4687		4421 S. First St., Arlington, VA
Hollifield, James Harrison	FR	OME	133 Tucker Bx 4644	TE2-9388	800 Railroad Ave., Leesville, SC
Hollifield, Richard C.	W	ME	4-25 MSH	TE4-6186	C-25 MSH, NCSC, Raleigh, NC
Hollingsworth, Peggy Earle	W	GS	2824 Barmettler	TE2-0507	Box 524, Roseboro, NC
Holloman, Jerry Lawrence	W	ADA			RFU 1 Box 22, Seaboard, NC
Holloman, George Roger	W	LE	48 Tanker Bx 4798		504 E. Main St., Murfreesboro, NC
Holloway, Cris Edwin, Jr.	W	ASF	115 Syme Bx 3513	832-9288	1101 Chelsea Rd., New Bern, NC
Holloway, Stephen Alan	W	PY	126D Bragaw		116 N. Woodhaven, Lenoir, NC
Hollowell, Joseph Bertrum, Jr.	W	ATL	1718 Hillsboro St.	VA8-4464	Rt. 1, Enorton, NC
Holman, Roland Greer	W	POR	114 Burlington Bx 4211	832-9279	West Jefferson, NC
Holmes, Robert Sterling	W	DN	110 Watauga Bx 3010	TE2-9447	Qts 3, Aberdeen Proving Gd., MD
Holman, Stuart Boyce	W	EE	155 Pasquotank Dr.	TE2-3555	155 Pasquotank Dr., Raleigh, NC
Holshouser, Arthur Lewis	W	EL	25 Logan Court		261 Ashley Rd., Charlotte, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Holshouser, Howard Eugene	SO	EE			Rt. 1 Box 212, Salisbury, NC
Holt, Billy Thomas	SO	ABP	225 Bagwell Bx 3357		Rt. 6, Burlington, NC
Holt, Charles Carlyle	FR	AGI	227 Tucker	TE2-9387	Rt. 1, Goldston, NC
Holt, Kenneth Paul	SR	CE	323A Bragaw Bx 15145	TE4-9179	Rt. 1, Jamestown, NC
Holton, George Montague, Jr.	SR	NE	1225 1/2 Duplin Rd.	833-9814	1225 1/2 Duplin Rd., Raleigh, NC
Holton, Roger Allen	FR	AMA	Watauga Bx 3007	TE2-9447	Rt. 2 Box 253, Roanoke Rapids, NC
Honaman, Craig J.	SO	A	225C Watauga Bx 15098	TE2-9185	168 Hawthorne Ave., Glen Ridge, NJ
Honeycutt, Fred Lindley, Jr.	JR	ME	132 Syme	TE2-9288	206 Payne St., Lexington, NC
Honeycutt, Jack Louis	FR	CE	305 Owen	TE4-9300	3928 McMillan St., Charlotte, NC
Honeycutt, James Reed	FR	NE	Owen Bx 4478	TE2-9410	1011 W. 6th St., Gastonia, NC
Honeycutt, Jerry Lee	FR	AI	121 Bagwell Bx 3321		Rt. 1, Dunn, NC
Honeycutt, LeRoy, III	FR	NE	164 Owen	TE2-9437	237 N. Sunset Dr., Winston-Salem, NC
Honeycutt, Robert Ernest	FR	ME			206 Payne St., Lexington, NC
Honeycutt, Thomas Lynn	SO	ASE	330 Bagwell	TE4-9151	412 Gatewood Ave., High Point, NC
Hood, Clarence Elan, Jr.	DR	AGE	D-11 MSH	VAB-3795	30 West 4th, Newton, NC
Hooker, George Leon, III	SO	EE	13 Berry Bx 4345	TE2-5350	404 Englewood, Rocky Mount, NC
Hooker, Jonathan Winfield	MR	CS	Alexander	TE4-8147	Rt. 3, Kenly, NC
Hooker, Wiley Edward	SO	CHE	Bx 4110		307 S. Eastern St., Greenville, NC
Hooper, Alvin Dillard	MR	NE	1025 Nichols Dr.		Tuckasee, NC
Hooper, John William, III	JR	CE	216C Bragaw		410 Gardner St., Reidsville, NC
Hoover, Charles Eddie	SO	IE			Rt. 4 Box 60, Salisbury, NC
Hoover, Larry Allan	SR	EE	326A Bragaw, Bx 15359		1008 Grove St., Charlotte, NC
Hope, Chris Lloyd	SO	ME	1228 Bragaw		417 Elizabeth, Gastonia, NC
Hopkins, John Hinton	FR	EE	117 Burlington Bx 4214		1130 E. 4th St., Charlotte, NC
Hopkins, Milton Dargen	JR	NE	117 Burlington		1130 E. 4th St., Charlotte, NC
Hopkins, Robert Patton	SO	CEC	11 Bagwell	TE3-0692	11 Bagwell Ave., Raleigh, NC
Horbatowski, Theodore Zbiguien	DR	EE	118 Forest Rd., Raleigh		118 Forest Rd., Raleigh, NC
Horne, Elmer Lee	SO	ME	109 Bagwell		1107 Anderson, Wilson, NC
Horne, Thomas David	SO	TAT	2426 Hillsboro St.	834-9859	Rt. 1 Box 23, Polkton, NC
Horne, William Edward	JR	NE	521 Pace St.		Rt. 2, Ellenboro, NC
Horne, William Edward	JR	NE	521 Pace St.		Rt. 2, Ellenboro, NC
Horner, Barry Eugene	SO	PFT	Bx 3824	832-9261	729 Elm St., Salisbury, NC
Horton, Frederick Tryon, Jr.	SO	ALZ	2504 Country Club Ct.	TE4-0989	2504 Country Club Ct., Raleigh, NC
Horton, James Floyd	JR	ME	4180 Bragaw Bx 15399	TE4-9754	706 Privette St., Wilson, NC
Horton, Sidney Evans	JR	POR	Becton Bx 3701	TE2-9256	Bx 324, Bethune, SC
Horton, Thomas Richard	SO	NE	322C Bragaw Bx 15353	TE2-9253	5418 Woodgewood Dr., Charlotte, NC
Horton, William Michael	JR	CEC	2729 Everett Ave.	TE2-1229	211 Mintum Ave., Fayette, NC
Horton, William Sidney, Jr.	SO	NE	4145 Bragaw Bx 15388	TE4-9754	1039 Jefferson Dr., Charlotte, NC
Hoskins, Dickey Edson	FR	CHE	2201 Garden Pl.		505 E. Delaware Ave., S. Pines, NC
Hoskins, Johnny Lawson	SO		5719 Waycross St.	TE2-5176	Box 415, Spencer, NC
Hosse, James Bonner	JR	CHE	1702 Hillsboro St.	TE2-8406	2405 Chesterfield Ave., Charlotte, NC
Hough, Frank Mackey, Jr.	SO	ARC	308 Welch	TE2-9119	2220 Queens Rd., E., Charlotte, NC
Houk, Thomas William	FR	PY	228 Furches St.		505 W. Locust St., Johnson City, TENN
House, Owen Daniel	SR	IA	4-15 MSH	TE2-9719	Box 247, Nashville, NC
House, Philip Eugene	JR	AEI	P-1 Raleigh Apts.	TE2-4343	Box 201, Robersonville, NC
House, Samuel Giles	FR	EE	Rt. 3, Smithfield		Rt. 3, Smithfield, NC
Houston, Lee Hammond, Jr.	FR	ME	5 Stadium Bx 4350		402 Brouton St., Troy, NC
Houtz, David Franklin	JR	RFA			207 Linden Ave., Rutledge, PA
Houtz, Howard Kennedy	SO	KE	402D Bragaw		300 W. Church St., Elizabeth City, NC
Houey, George Dunmore	SO	EE	3212 Merriman Ave.		Rt. 2 Lakewood, Hickory, NC
Howard, Bruce Gordon	FR	EE	338 Owen Bx 4551	834-9836	Rt. 5 Box 471A, Burlington, NC
Howard, Dean	SO	TAT	218 Tucker Bx 4689	TE4-9828	801 E. Marion, Shelby, NC
Howard, Donald Wayne	SO	CEC	College Union		2206 Pike St., Durham, NC
Howard, Edward Samuel, Jr.	SO	ASD	213 Polk St.		Rt. 1, Deep Run, NC
Howard, James Scott	FR	POR	Tucker Bx 4716	TE2-9387	256 Shady Brook, Princeton, NJ
Howard, Phil Thomas	FR	EE	2918 Holly Spr. Rd.	VAB-3827	Rt. 2, Huntersville, NC
Howard, Rebecca Miller	SO	AMA	403 Furches St.	833-7653	403 Furches St., Raleigh, NC
Howarth, Birkett, Jr.	SR	AMS	100 Faircloth St.	TE4-3819	Wyncote House, Wyncote, PA
Howell, Colbert Fage	JR	IA	1318 Mordecai Dr.		Rt. 1, Murfreesboro, NC
Howell, Dewey Edward	SR	ASW	216 Hawthorne Rd.	TE4-5369	Box 195, Goldsboro, NC
Howell, James Alex	SO	TAT	233 Burlington Bx 4260		215 McGill St., Albemarle, NC
Howell, Jerry Ponce, Jr.	SR	POM	Bx 4755		Camden, KY
Howell, John Howard, Jr.	JR	EE	117C Bragaw Bx 15032		2306 Woodland Ave., New Bern, NC
Howell, Jon Russell	MR	AMA	1430 Duplin Rd.	832-3035	1430 Duplin Rd., Raleigh, NC
Howell, Kenneth Edwin	SO	TAT	126 Burlington		601 East "G" St., Erwin, NC
Howell, Louis Wayne	SR	AGI	Becton Bx 3802	TE2-9372	Rt. 2, Hertford, NC
Howell, Marion Franklin	FR	AEI	Tucker Bx 4816		Rt. 3, Wilson, NC
Howell, Millard Cleveland	FR	AEI			Rt. 2, Wadesboro, NC
Howell, Robert Gene	SO	EE	308D Bragaw Bx 15325	TE4-9253	1108 Key St., Boone, NC
Howell, Walter Brian	SO	MEA	1710 Hillsboro St.	TE4-2001	301 Newkirk Ave., Wilmington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Howey, Lewey Edwin	FR	FR	201 Welch Bx 3249	TE2-9119	1011 Marst. Rd., Charlotte, NC
Howie, William King	JO	TAT	P-324 MSH	828-8747	1323 Rayon St., Burlington, NC
Howie, George Walter	JR	SR			Box 425, Newton, NC
Howie, James Franklin	FR	NE	14 Owen Bx 4434	TE2-9437	Box 442, Albemarle, NC
Hoyle, Johnny Carl	JR	OE	Bragaw		Rt. 3, Lawndale, NC
Howie, Nancy Livingston	FR	FR	3429 Redbud Lane	TE3-7115	3429 Redbud Lane, Raleigh, NC
Huang, Hsueh-Lin	MR	FR	501 Beverly Dr.	834-3574	501 Beverly Dr., Raleigh, NC
Hau, Lee L. Y.	SO	FR	2402 Hillsboro St.	TE2-9418	40 Martin Rd., Livingston, NJ
Hustons, Donald Gene	JR	SR	4-1111 Main	828-8977	Rt. 2 Box 277, Dallas, NC
Hubbard, James Allison	SR	FR	226D Bragaw Bx 15309		Hope Mills, NC
Huckabee, Carmon Harris	JR	MA	Rt. 1, Cary	HO7-2292	Rt. 1 Box 642, Cary, NC
Huckabee, Marvin Levern	JR	BAC	K-21 MSH	828-5582	K-21 MSH, NCSC, Raleigh, NC
Hudson, Charles Landrum	JR	MR	615 Mial St.	VA8-6737	615 Mial St., Raleigh, NC
Hudson, Charles Landrum	FR	FR	Bx 4225		Rt. 5 Box 430, Asheville, NC
Hudson, Charles Landrum	FR	OE			Box 9008, O'Teen, NC
Hudson, Charles Landrum	FR	FR	33 Owen Bx 3594	832-9222	Rt. 3 Box 148A, Concord, NC
Hudson, Charles Landrum	SR	FR	21 Syme Bx 3617	TE2-4173	522 Pine St., Graham, NC
Hudson, Charles Landrum	SO	FR	13 Maiden Lane	TE2-9421	Box 9008, O'Teen, NC
Hudson, Charles Landrum	JO	TAT			519 Apple St., Washington, NC
Hudson, Gerald Farmer	JR	MR	323 Turlington Bx 4295	TE2-9192	1227 S. Lafayette St., Shelby, NC
Hudson, Joseph Madison	SC	MR			Rt. 1 Box 186, Pantego, NC
Hudson, Richard Henry	SR	OE	734 Woodland Rd.	TE3-1002	635 Orchard Rd., Valdeese, NC
Hudson, Robert Lee	MR	OE	A-13 MSH		734 Woodland Rd., Raleigh, NC
Hudson, Robert Prince, Jr.	FR	MR	265 Owen Bx 4516	TE2-9252	A-13 MSH, NC, Raleigh, NC
Hudson, Rodney Edward, Jr.	FR	MR			Rt. 4 Box 336A, Durham, NC
Hudson, William Zachary	JR	MR	2624 Bedford Ave.	834-8141	326 Amazon Ave., Cincinnati, OHIO
Huff, William Lowell	JO	FR			Rt. 4, Roxboro, NC
Huffman, Daniel Russell	MR	FR		VA8-3893	Box 522, Newton, NC
Huffman, Daniel Russell	JO	OE			202 E. Carpenter St., Maiden, NC
Huffman, Daniel Russell	JO	MR	Box 15086		Rt. 2 Box 202, Hickory, NC
Huggins, Edward Bernard	MR	MR	601 Poplar Dr.		2221 N. Center St., Hickory, NC
Huggins, Kenneth Leroy	MR	MR	7 Enterprise St.	TE4-0435	601 Poplar Dr., Echo Hts., Raleigh, NC
Huggins, Joseph Allen	MR	MR		TE2-9940	Rt. 2, Clinton, NC
Huggins, Thomas Franklin	FR	MR	2303 Clark Ave.		412 Market St., Wilmington, NC
Hughes, David Sinclair	JO	TAT	1219 Courtland Dr.	TE2-9323	910 N. Gregson St., Durham, NC
Hughes, Thomas Franklin	FR	MR			34 Skyland Cir., Asheville, NC
Hughes, Ernest Wilson	MR	MR			Smyma Rd., Whiteville, NC
Hughes, Eugene Richard	JR	FR		TE2-4977	Rt. 5 Box 145, New Bern, NC
Hughes, Miles Augustus, Jr.	JR	FR	308 Horne St.	TE2-7050	3131 Eton Rd., Raleigh, NC
Hughes, Walter Harold	FR	AE	62 Owen Bx 4596		116 W. Gale St., Edenton, NC
Hughes, Stanley Hutchison	FR	FR			Rt. 3, Tabor City, NC
Hula, Marvin Bobb	FR	FR			Box 602, Elon College, NC
Hubert, William Henry	FR	FR	205 Becton Bx 3739		Rt. 1 Box 73, Sandy Point, VA
Hull, George Richard	FR	FR	616 N. Endor St.	TE2-9334	616 N. Endor St., Sanford, NC
Humbert, Steven B.	FR	FR	220 MSH		58 Bear Creek Rd., Asheville, NC
Humphrey, Clarence Hermit, Jr.	FR	FR		TE2-9432	16 Cypress St., Somerville, MASS
Humphrey, Kabern David, Jr.	FR	FR			1906 E. 6th St., Greenville, NC
Humphrey, Hilton Jennings	FR	FR			
Humphreys, Paul Nolly	FR	FR			
Humphries, Lavin Grigg	FR	FR			
Humphries, Thomas Philip	FR	FR			
Huneycutt, Joel Andrew	FR	FR			
Huneycutt, Mitchell Wayne	FR	FR			
Huneycutt, Robert Daniel	FR	FR			
Huneycutt, Ronald Garland	FR	FR			
Huneycutt, Sherman James	FR	FR			
Huneycutt, Sherman James	FR	FR			
Huneycutt, Harold Richard, Jr.	FR	FR			
Hunsacker, John Kenneth	FR	FR			
Hunt, Betty Jean	FR	FR			
Hunt, Carlton Horace	FR	FR			
Hunt, James Howell	FR	FR			
Hunt, Joseph Lindsey	FR	FR			

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Hunt, Joseph Marvin	MR	EE			230 Brookwood Garden Apts., Burlington, NC
Hunt, Richard Ivan	FR	AGI	Rt. 5	VA8-4721	Rt. 5, Raleigh, NC
Hunt, Tommy Norton	SO	POR			Rt. 2, Franklin, NC
Hunt, Walter Skellie	JA	MED	2361 McMullan Cir.	VA8-7867	2361 McMullan Cir., Raleigh, NC
Hunt, William Thomas	FR	EE	2415 St. Mary's	TE3-1437	2215 St. Mary's St., Raleigh, NC
Hunter, Ernon Albott, III	FR	ARC	308 Welch Bx 3268		104 Falcon Rd., Rocky Mount, NC
Hunter, John Wayne	FR		1020 Bragaw	TE2-9183	Rt. 3 Haux Mtn. Rd., Winston-Salem, NC
Hunter, Richard Franklin	SR	CE	2210 Van Dyke Ave.	TE3-7708	2210 Van Dyke Ave., Raleigh, NC
Hunter, West Porter	FR	AGI	Owen Bx 4565	834-9836	Rt. 11 Box 28, Charlotte, NC
Hunter, William Francis	SO	TC	Bragaw Bx 15323		Rt. 1 Box 88, Clarksville, VA
Huntley, James Richard	SO	NEA	2226 Hillsboro	TE2-2584	1200 Lakewood Dr., Monroe, NC
Huntley, William A.	SR	PD	1911 Clark Ave.	TE2-3125	318 E. 2nd, Smithfield, NC
Huteman, James Marvin	SO	NE			212 Maynard, Pope AFB, NC
Hupko, Michael Belton	JR	ATE	2208 Bragaw Bx 15297		Box 44, Pinebluff, NC
Hurdle, Billy Richard	FR	AEC	Bx 4444	832-9115	Hobsville, NC
Hurst, George Andrew	MR	AEC			88 Pease Ave., Verona, NJ
Hurst, Raebourne Brown, Jr.	SO	CHE	330 Turlington Bx 4292	TE2-9192	1122 Martin St., Winston-Salem, NC
Hurst, Richard Allen	FR	NE	904 Culppepper Lane	TE2-9531	904 Culppepper Lane, Raleigh, NC
Husain, Fayez Abdel	SO	CHE	177 Forest Rd.	TE3-4090	117 Forest Rd., Raleigh, NC
Hussey, George Anthony	FR	A	Tucker Bx 4704	TE2-9387	Rt. 2 Box 104, Wenton, NC
Hutchens, Henkel Hayes	FR	TXT	Bx 3596	832-9222	Box 351, Newton, NC
Hutchens, Jerry Lee	SR	TC	3054 Bragaw Bx 15108		Box 84, Yadkinville, NC
Hutchens, Rodney Lynn	FR	AS	314 Watauga	TE2-9132	314 W. 2nd St., High Point, NC
Hutcheson, James Stanford	SO	EE	106B Bragaw		2411 Eliz. Ave., Winston-Salem, NC
Hutchins, Andrew John	GR	CL	6 Enterprise St.	TE2-4788	104 Johnson St., Canton, NC
Hutchins, Calvin Monroe	JO	IA	127 Turlington	TE2-9279	201 Walnut St., Winston-Salem, NC
Hutchins, Charles Leroy	GR	EL	2205 Mossbank Rd.	828-6610	Rt. 8 Elliott Rd., Winston-Salem, NC
Hutchins, George Stephen	SR	EST			201 Gulf St., Sanford, NC
Hutchins, Phillip Michael	JR	EE	Bx 15415	TE4-2934	Rt. 8 Elliott Rd., Winston-Salem, NC
Huxeter, William Thornhill, Jr.	GR	WT	4426 Memorial Dr.	TE4-2247	4426 Memorial Dr., Raleigh, NC
Hwang, Pang Peng	MR	AGE	2726 1/2 Clark Ave.	828-6603	5 Lar Ya St., Hsinchu, Formosa, CHINA
Hyatt, Bass Utile	GR	A			Brasstown, NC
Hyatt, Charles Edmund	JR	EE	1419 Lutz Ave.	TE2-2268	1419 Lutz Ave., Raleigh, NC
Hyatt, Charles Edward	SR	ME	2820 Barnettler		Rt. 1 Box 281, Wilson, NC
Hyde, William Milton	SO	ARC	245 Owen Bx 4480	TE2-9242	Rt. 5 Box 76, Franklin, NC
Hyder, John Herbert, Jr.	JR	NE	119B Bragaw Bx 15034		214 McQuinn Ave., Lincolnton, NC
Hyder, Spurgeon Vanburen	FR	IA	Alexander Bx 4147	TE4-7474	Rt. 3, Rutherfordon, NC
Isaeger, Paul Frederick	SR	RPA	121 Bagwell Bx 2321		1330 Avenue C, Reading, PA
Idol, Don Ralph	SO	CE	Bx 4433		Rt. 1, Kernersville, NC
Idol, Tony Gene	SR	CEC	105 Welch Bx 3241	TE4-9119	Box 732, Rt. 1, Colfax, NC
Iles, David Edgar	SO	ATD	230 Turlington Bx 4258		Rt. 3, Littleton, NC
Hoelzer, In	DR	CE	12A Daisy St.		Speu, Kg Cham, Cambodia
Ingold, David Edward	FR	ME	506 Walker St. Cary		506 Walker St., Cary, NC
Ingram, Dick DeBusk	JR	IA	702 W. Morgan St.	TE4-2882	702 W. Morgan St., Raleigh, NC
Ingram, James Paeford	SO	NE	Bx 3323	TE4-9219	Rt. 5, Goldsboro, NC
Ingram, Milton Glenn	SO	ATH	107 Bagwell Bx 3307	TE4-9219	Rt. 2, Princeton, NC
Ingram, Nelson Percy	SO	MEA			Box 272, Pleasant Garden, NC
Inman, Thomas Hubert	SO	IE	201 Alexander	TE4-9746	242 N. Anderson St., Morganton, NC
Innesco, Willard David	FR	CRE	440 Owen Bx 4554	834-9836	Box 236, Nashville, NC
Irby, John Ferman, Jr.	SO	POM	1718 Hillsboro	VA8-4464	2055 Logan St., Bon Air, VA
Ipock, Leslie Nathaniel, Jr.	SO	TKT	1720 Hillsboro St.	VA8-9200	309 Center St., Mt. Olive, NC
Ireland, Lock Wynn	SO	CE	2513 Clark Ave.	TE2-0268	3529 Scotty Wood, Fayetteville, NC
Irvin, John Christopher, III	SO	IA	Bx 3127	TE2-9159	700 W. Virginia Ave., Crewe, VA
Irvin, Malba S.	JR	LA			3703 Lyckan Pkwy., Durham, NC
Isaacs, Scottie Clark	FR	AED	Bx 4690	TE2-9387	Rt. 3, Mount Airy, NC
Iser, Simmons Harrison	FR	ARC	1709 Hillsboro St.	TE3-6901	1100 Broadmoor Dr., Charlotte, NC
Iseley, David Lee	SR	CE	216 Hillcrest Rd.		Rt. 2, Reidsville, NC
Ives, Linda Earle	SO	ASZ	16 Horne St.		913 Jefferson Dr., Kinston, NC
Ivey, David Jackson	SO	MEA	426B Bragaw Bx 15413	TE4-2934	407 Kilt Ct., Alexandria, VA
Ivey, Reef Challenge, II	SO	NE	2709 Clark Ave.	828-7883	Box 1068, Lumberton, NC
Ivey, Robert Joe	JR	EE	2719 Avent Ferry Rd.	TE4-6780	3707 Kentwood Dr., Greensboro, NC
Jackson, Allen Cooper	FR	A			Rt. 2, Roseboro, NC
Jackson, Andrew Roy, Jr.	SO	PMH	112 Becton Bx 3712	TE2-9256	W. James St., Lillington, NC
Jackson, Charles Holder	SR	POR	6 Perndell Lane	TE2-2256	King St., Windsor, NC
Jackson, Eugene Alexander	FR	EE	236 Tucker Bx 4706	TE2-9387	Rt. 1, Dunn, NC
Jackson, George Claudius	SR	MEA	Rt. 6	834-6715	RFD 6, Box 87, Greenville, NC
Jackson, Graydon Paul, Jr.	FR	AGI	148 Owen Bx 4439	832-9115	Rt. 1 Box 527, Winterville, NC
Jackson, Harold Edward	IE	OW	Owen Bx 349		Rt. 3 Box 500, Gastonia, NC
Jackson, Ira Jerome, III	JR	TC	2514 Clark Ave.	TE2-9148	Box 1, Middleburg, NC
Jackson, James Patrick	JR	HE	216 Ashe Pl.		621 Ideal Way, Charlotte, NC

NAME	YR	CURF	ADDRESS	TELEPHONE	HOME ADDRESS
Jackson, Jasper Dempsey, Jr.	JK	SED	4-221 Moss	834-0040	Rt. 1, Dunn, NC
Jackson, John Thomas	JK	IS	2101 Reeves Dr.	TEA-9849	2101 Reeves Dr., Raleigh, NC
Jackson, Louis	JK	A			Rt. 3, Wake Forest, NC
Jackson, Lynn Evelyn	JK	POW	Box 341A, Cary	H07-4062	Box 341A Rt. 1, Cary, NC
Jackson, Marshall	JK	POW	Box 1508		Box 324, Dobson, NC
Jackson, Robert	JK	LA	201 1/2 Park Ave.		201 1/2 Park Ave., Buffalo, NY
Jackson, Robert Larry	JK	TAT	6311 Hillsboro Rd.		6311 Hillsboro Rd., Raleigh, NC
Jackson, Robert Larry	JK	POW			1236 Dabney Dr., Henderson, NC
Jackson, Ronald McAllister	JK	LA	M-21 McKimmon Vill.	832-8874	M-21 McKimmon Vill., NCSC, Raleigh, N
Jackson, Robert Alphonso	JK	LA	301 Gold		Peakwood Dr., Roanoke, VA
Jackson, Ronald Vasco	JK	IS	2232 Hillsboro St.	TE3-8716	Rt. 1, Dunn, NC
Jackson, Travis Lawrence	JK	EE	4205 Western Blvd.	828-8879	703 Baldwin Ave., Marion, NC
Jackson, Waylon Mitchell	JK	AVC	104 Watauga		Rt. 8, Sanford, NC
Jackson, Wilbur Arrington	JK	SE	Bx 4696	TE2-9387	506 Simpson Dr., Colonial Heights, VA
Jackson, William Lee	JK	SE	Bx 4787	832-9180	90 Shah Ave., Tehran, IRAN
James, Bartlett Leondious	JK	ME	134 Turlington Bx 4229	834-9297	Rt. 1 Box 258, Kannapolis, NC
James, Burt	JK	SEA	226 Bagwell Bx 3358	832-9131	Rt. 4, Elizabeth City, NC
James, Irvin E.	JK	NE	2714 Rosedale		Everetts, NC
James, Robert Daniel	JK	ABJ	332 Becton	TE9-9372	Rt. 2 Box 284, Robersonville, NC
James, Robert Daniel	JK	SE	233 Bagwell Bx 3365		Rt. 2 Box 345-A, Wallace, NC
James, Stephen Thomas	JK	AMA	4-25 Bragan Bx 15197		Rt. 3 Box 50, Wadesboro, NC
James, William Cornelius, Jr.	JK	RPA	247 Tucker	TE2-9387	402 Library St., Greenville, NC
James, William Russell	JK	AVC	308 Horne St.	TE2-7050	415 Sheffield St., Winston-Salem, NC
Janis, Allyn James	JK	LA	201 1/2 Park Ave.		603 Rockland Rd., Wilk 3, EKL
Jansen, Edmund Frederick, Jr.	JK	APV	107 Gary St.	TE4-4475	RR 2, Quincy, ILL
Jariwala, Anupkumar J.	JK	TAT			Begumpura Khungud St., Surat, INDIA
Jarrett, James Thomas	JK	SE	218 Becton	TE2-9334	7 Delaware St., Asheville, NC
Jarvis, Arthur R. W.	JK	NE	160 Tucker Bx 4667		5 Stratford Pl., Babylon, L.I., NY
Jarvis, Steve Chadwick	JK	NE		TE4-9219	Box 25, Aurora, NC
Jaycox, Robert James	JK	SE	4-201 McKimmon Vill.	834-4746	1060 Auburn, Rochester, MICH
Jefferson, James Summerville	JK	SE	Bagwell Bx 3328	TE4-9219	3316 Loxley Rd., Richmond, VA
Jefferson, William Thomas	JK	NE	107 1/2 Oberlin Rd.		804 W. Highland Ave., Kinston, NC
Jeffrey, Norris Buddie	JK	SE			805 E. Franklin St., Chapel Hill, NC
Jeffreys, James Irving, Jr.	JK	AVC	2330 Knowles St.	TE2-4919	Box 38, New London, NC
Jeffreys, Nicholas Battle	JK	EST	7 Maiden Lane		512 S. 18th St., Wilmington, NC
Jeffreys, James Alfred	JK	TAT	C-13 McKimmon Vill.	VA8-7803	C-13 McKimmon Vill., NCSC, Ral., NC
Jeffreys, Jonathan	JK	MEA	2007 Glenwood Ave.		2007 Glenwood Ave., Raleigh, NC
Jenkins, Alvin Leigh	JK	POW	225C Bragan Bx 15098	TE2-9185	3804 N. Linden Lane, Peoria, ILL
Jenkins, Ben Plato	JK	NE	G-25 McKimmon Vill.	832-0946	4918 Mountain Crest Dr., Knoxville, TENN
Jenkins, Berry George, Jr.	JK	SE	60 Tucker	TE2-4237	Westmont Dr., Asheville, NC
Jenkins, Carlton Maynard	JK	CE	309 Watauga		4701 Wrightsville Ave., Wilmington, NC
Jenkins, Charles Robert	JK	AEJ	10 Enterprise St.		RFD 2, Deep Run, NC
Jenkins, Edward Lee	JK	ME	Bx 15074		4027 Old Pineville Rd., Charlotte, NC
Jenkins, Edward Mark	JK	AVC	1705 Fairview Rd.	TE2-9523	1705 Fairview Rd., Raleigh, NC
Jenkins, James Alvin	JK	TAT	14 1/2 S. Boylan Ave.		Calvary Rectory, Fletcher, NC
Jenkins, Jerry Lionel	JK	POW	144 Owen		871 Henkel Rd., Statesville, NC
Jenkins, Joel Bernard, Jr.	JK	SE	234 Bagwell	TE2-9131	5 Rohanen Ave., Rockingham, NC
Jenkins, John Thaddeus, Jr.	JK	AEJ	215 Tucker Bx 4686	TE2-9387	Rt. 2 Box 251, Robersonville, NC
Jenkins, Joseph Jackson, Jr.	JK	AGC	107 1/2 Oberlin Rd.		108 Park Ave., Kinston, NC
Jenkins, Joseph William	JK	ME	311 Turlington Bx 4273	TE2-9192	Rt. 2, Matthews, NC
Jenkins, Joseph William	JK	CHS	105 Dorothy Dr. Cary	H07-9522	105 Dorothy Dr., Cary, NC
Jenkins, Larry Stuart, Jr.	JK	TAT	5109 Newcastle Rd.	TE2-3653	5109 Newcastle Rd., Raleigh, NC
Jenkins, Margaret Elizabeth	JK	UP	339 Owen Bx 4553	834-9836	202 Cornwallis Dr., Greensboro, NC
Jenkins, Richard Alan	JK	POW	D301 Boylan Apts.	828-5509	6626 Woodland Cir., Charlotte, NC
Jenkins, Terry Ralph	JK	POW	213 Syme		309 Park Ave., Wilson, NC
Jenkins, William Arthur	JK	MEJ	262 Tucker	TE2-9387	4309 7th St., Richmond, VA
Jennings, James George	JK	SE	Bx 4515	TE2-9252	Rt. 8 Box 242C, Charlotte 5, NC
Jennings, Paul Harry	JK	WFE	716 W. North St.	TE2-0767	507 Shadeland Dr., Falls Church, VA
Jensen, Erik Anders	JK	ME	Rt. 1, Cary		Box 144, Rt. 1, Cary, NC
Jerman, Donald Sydnor, Jr.	JK	NE	424 Hillsboro YMCA	TE2-6601	113 E. Brentwood Rd., Greensboro, NC
Jernigan, Connie Hughes	JK	NE	2310 Churchill Rd.	TE2-4085	2310 Churchill Rd., Raleigh, NC
Jernigan, Noble Talmage, Jr.	JK	ATC	207 Park Ave.		Rt. 5, Dunn, NC
Jervis, Laurens Gifford	JK	APV	Becton Bx 3773		Rt. 5, Dunn, NC
Jessup, Don Blackwell	JK	POW	214 Syme Bx 3546	832-9150	108 Kirkland Dr., Fayetteville, NC
Jetter, Frederick Robert	JK	CHC		VA8-2916	2121 Raeferd Rd., Fayetteville, NC
Jhaveri, Jagmohan Gordhandas	JK	CE	2510 1/2 Everett Ave.		102-55 188 St., Hollis 23, NY
Jin, Chia Ren	JK	TC	36 Dixie Dr.		9A Ferreira Mansion, Mahim, Bombay, INDIA
Joensuu, Paavo Ilmari	JK	CHS	1314 Banbury Rd.	TE2-0386	45 Carnarvon Rd., Kowloon, HongKong
Johns, Fred Louis	JK	POW	2314 Hillsboro St.		5040 SW 103rd Pl., Miami 55, FLA
	JK	CE	313 Berry		800 Ethelred St., Fayetteville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Johnson, Alan Merle	SO	EE	418C Bragaw	TE4-9754	524 Watson Ave., New Bern, NC
Johnson, Albert Gordon	SO	MEA	406B Bragaw Bx 15372	TE2-9754	715 2nd Ave. Pl. NE, Conover, NC
Johnson, Archie Doyle	FR	ME	5133 Melbourne Rd.	828-4669	Rt. 1 Box 8, Vera 41, UTAH
Johnson, Arthur Gleason	FR	EE	307 Watauga Bx 3043		902 Warren St., Bristol, PA
Johnson, Barry Lee	FR	EE	219 Bagwell Bx 3351	832-9131	1250 Peace Haven Rd., Winston-Salem, NC
Johnson, Boyd W.	GR	NE	4817 Yaddin		4817 Yaddin St., Raleigh, NC
Johnson, Carl Fleming		AGI			Rt. 1, Lillington, NC
Johnson, Carol Holmes	MR	OIG	3921 Arrow Dr.	TE4-1401	3921 Arrow Dr., Raleigh, NC
Johnson, Charles Duncan	SR	ME	Bx 3527		RFD 1, St. Pauls, NC
Johnson, Charles Hershal	FR	ME			2517 Hoskins Dr., Burlington, NC
Johnson, Claude Lewis	FR	AG	5315 Orchard St.	VAB-3092	Rt. 2, Pittsboro, NC
Johnson, Cynthia Graham	JR	AMA	717 Gaston St.	TE2-5367	408 Vann St., Clinton, NC
Johnson, Dale Reid	JR	IATO	422B Bragaw Bx 15405		1740 W. Davis St., Burlington, NC
Johnson, David Ray	SO	CBC	Q-206 McKimmon Vill.	834-7609	218 Bethune, Fayetteville, NC
Johnson, Dock Edgar			Bx 3604	TE2-9421	Rt. 3, Randleman, NC
Johnson, Edward Earl	SR	AMA	313A Bragaw Bx 15124	TE4-9179	406 S. Gen. Lee Ave., Dunn, NC
Johnson, Edward Marion	UN	GS	323 Tucker Bx 4754	TE2-9323	1110 Neal St., Greensboro, NC
Johnson, Emmitt Hickerson	FR	TC	316 Alexander Bx 4179		2909 Winstead Rd., Rocky Mount, NC
Johnson, Garrett Lynnwood	FR	TXT	219A Bragaw Bx 15084		806 N. Fir Ave., Siler City, NC
Johnson, George Robert	SO	TC	108A Bragaw Bx 15223	TE2-9180	521 Sunset Ave., Wilmington, NC
Johnson, Hilton Springer	FR	ME	Bx 3303	TE4-9219	Rt. 2 Box 165, Aurora, NC
Johnson, Homer Ray	JR	CHE			Rt. 2, Dunn, NC
Johnson, Hugh Arthur	JR	ASC	212D Bragaw Bx 15282	828-7759	Rt. 3, Newton, NC
Johnson, Jackie Burris	SR	MEA	116B Bragaw	TE2-9180	Pine Not St., Draper, NC
Johnson, James Douglas	FR	AGI	Tucker		Rt. 2, Angier, NC
Johnson, James Howe, Jr.	FR	PPT	Becton Bx 3816	832-9261	2nd St., West Point, VA
Johnson, Jerry MacArthur	SO	EE	228 Alexander	TE4-9746	901 Cub St., Kammopolis, NC
Johnson, John Allen	SR	CE	741 St. George Rd.	828-6454	741 St. George Rd., Raleigh, NC
Johnson, John Francis	SO	AGI			Rt. 2, Windsor, NC
Johnson, Joy Marjorie	FR	AMA	3921 Arrow Dr.	TE4-1401	3921 Arrow Dr., Raleigh, NC
Johnson, Kenneth Lee	FR	TXT	218 Tucker Bx 4689	TE4-9828	Rt. 1 Box 287, Marion, NC
Johnson, Lawrence Alvin	FR	ASE	321 Tucker Bx 4752		Wilson's Mills, NC
Johnson, Lewis Monroe	FR	ME	201 Owen	TE2-9410	910 Bridlepath Lane, Charlotte, NC
Johnson, Madison Estridge	JR	ABH	363 Owen Bx 4574		Rt. 6 Box 346, Kinston, NC
Johnson, Michael Edge	JR	ABH	211 Alexander Bx 4140	TE4-9746	Box 478, Havelock, NC
Johnson, Michael Ray	SO	FOM	2713 Everett		Rt. 5, Sanford, NC
Jepson, Ralph Morgan	FR	ME	240 Owen Bx 4494	832-9252	Rt. 2, Dunn, NC
Johnson, Richard Morris	SR	ME	203 Groveland Ave.	TE2-1619	707 N. Main St., Graham, NC
Johnson, Robert Eugene	SO	AMA	422B Bragaw		101 Luvera St., Plymouth, NC
Johnson, Roger Earl	FR	ME	321 Turlington Bx 4283		119 Azalea Cir., Burlington, NC
Johnson, Roger Ray	FR	AGI	Bx 3615	TE2-9421	Rt. 1, Cameron, NC
Johnson, Ronald Bruce		AGI	210 Tucker	TE2-9387	Rt. 1, Lillington, NC
Johnson, Ronald Eugene	FR	CE	351 Tucker Bx 4778	TE2-9739	1807 N. Alston Ave., Durham, NC
Johnson, Stephen Poche	JR	MEA	1025 Pineview Dr.	832-7316	525 S. 3rd St., Smithfield, NC
Johnson, Tapley Orman	SR	RPA	Pine Lake Trailer Pk.		Rt. 2, Wake Forest, NC
Johnson, Thomas Harold	SO	AT	419B Bragaw Bx 45191		160 E. Rose Tree Rd., Media, PENN
Johnson, Thomas Lenoir	FR	EE	Bragaw Bx 15389	TE4-9754	Rt. 6, Hendersonville, NC
Johnson, Thomas Moses, Jr.	SO	ME	2623 Fairview Rd.	TE2-7462	2623 Fairview Rd., Raleigh, NC
Johnson, Thomas Wishum	FR	EE	2602 Wade Ave.	TE2-1729	2602 Wade Ave., Raleigh, NC
Johnson, William Finley	JR	CHE	204 Berry Bx 4311	TE2-9363	Rt. 1, Oxford, NC
Johnson, William Pearce	SO	MEA	302 Alexander Bx 4168		1028 Southwood Dr., Durham, NC
Johnston, Brian Lee	FR	ARC	2715 Everett Ave	TE4-0817	2715 Everett Ave., Raleigh, NC
Johnston, David Gant	SR	CE	216 E. Whitaker Mill	TE2-1237	4116 Galax Dr., Raleigh, NC
Johnston, David West	FR	EST	154 Owen Bx 4445	832-9115	500 S. Mendenhall St., Greensboro,
Johnston, Henry Wood	SR	ARC	124 Hawthorne Rd.		500 S. Mendenhall St., Greensboro,
Johnston, John Albert	FR	EE	219 Owen Bx 4474		Gollinwood Dr., Burlington, NC
Johnston, Joseph Tharpe	SR	FSW	Gx 4619		Rt. 3, Littleton, NC
Johnston, Mary Jennette	GS	127 W. Park Dr.		TE3-0697	127 W. Park Dr., Raleigh, NC
Johnston, Michael Towell	SO	ARC	3070 Bragaw Bx 15114		Rt. 1, Mooreville, NC
Johnston, Richard Malcolm, Jr.	SO	AGI			Box 236, Yanceyville, NC
Johnston, Roy Lee	GR	CH	F-22 McKimmon Vill.		219 Tomberlin Rd., Mt. Holly, NC
Johnston, Stephen Andrew	SO	NE	415C Bragaw Bx 15184	TE4-9757	2109 Tremont Ave., Concord, NC
Johnston, William Henry, III	JR	MEH	100 Faircloth St.	TE4-5721	100 Faircloth St., Raleigh, NC
Johnston, William Jackson	JR	ME	2408 Mayview Rd.	833-6815	2408 Mayview Rd., Raleigh, NC
Joiner, Vann Sylvanus	SO	CE	Bx 5566	832-9353	417 Pinedale Dr., Reidsville, NC
Jolley, John Alexander	FR	ASV	139 Tucker Bx 4649	TE2-9388	Rt. 2, Ellenboro, NC
Jones, Billie Wall	SO	PY	116 Alexander	TE2-9257	105 Margrace, Kings Mtn., NC
Jones, Bolton William, Jr.	JR	ATC	Alexander Bx 4173	TE2-9349	Rt. 1, Sedithfield, NC
Jones, Bruce Lancaster	SO	PY	126 Turlington Bx 4223	TE4-9279	718 Bridges Dr., High Point, NC
Jones, Charles Bernard	JR	ME	121 Alexander Bx 4102	TE2-9357	906 Kenan St., Wilson, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Jones, Charles Clarence	SO	MEA	314D Bragaw Bx 15337		1002 Edgerton St., Goldsboro, NC
Jones, Charles	SR	CEC	703 Wade Ave.	833-7355	Rt. 1, Box 326, Banana, NC
Jones, Charles Edward	FR	MEA	150 Owen		405 Olive Ave., Lenoir, NC
Jones, Charles Selby					88 Sufferan Rd., Valleyfield, Quebec, CANADA
Jones, Daniel Gordon	FR	AG	303 Tucker	TE4-9739	Box 461 Rt. 2, Hopewell, VA
Jones, David Douglas	SO	ME	403 Bragaw Bx 15159	TE4-9757	Rt. 2 Box 86, Salisbury, NC
Jones, Donald Stratton	SR	EE	214 Elm St.	828-6482	1725 Woodside Dr., Wilson, NC
Jones, David Forsythe	FR	ARC	2327 Churchill Rd.	TE2-0838	2327 Churchill Rd., Raleigh, NC
Jones, David Ray	SO	AGI	339 Turlington		Rt. 1, Liberty, NC
Jones, Edward Grant, Jr.	FR	EE	223 Bagwell Bx 3355	832-9131	RFD 2, W. Jefferson, NC
Jones, Ernest Olin	DR	NE	3439 Bradley Pl.	828-6731	3439 Bradley Pl., Raleigh, NC
Jones, Ernest Victor, Jr.	SO	AMA	213 Alexander Bx 4142	TE4-9746	Rt. 1 Box 285A, Williamston, NC
Jones, Gerald Phelan	FR	AGV	49 Tucker	TE2-9186	1910 Ewing Ave., Charlotte, NC
Jones, Gilbert Ronald	SO	MEA	115 Hawthorne Rd.	VAB-7790	Rt. 4, Sanford, NC
Jones, Harold Holyoake, Jr.	SR	ATO			Box 1202, New Bern, NC
Jones, Harry Leroy, Jr.	JR	ME	310D Bragaw Bx 15136	TE4-9179	Rt. 1 Box 166, Pelham, NC
Jones, Howell Derwood, Jr.	SO	ASW	2144 Mayview Rd.		2144 Mayview Rd., Raleigh, NC
Jones, Ivan Donlevy, Jr.	SR	GS	200 Rosedale Ave.	TE2-3091	2710 Rosedale Ave., Raleigh, NC
Jones, James Benton	SR	CE	116D Bragaw Bx 15238	TE2-9180	2910 Royston Rd., Charlotte, NC
Jones, James Henderson	FR	ME	19 Stadium		RFD 3, Mt. Olive, NC
Jones, James Lloyd	JR	IA	222 Becton		Rt. 1, Kenly, NC
Jones, Jerry Lee	SR	TAT			Rt. 4 Box 252, North Wilkesboro, NC
Jones, John Allen	FR	FF	Box 4186	TE2-9349	315 S. Marietta St., Gastonia, NC
Jones, John Benson	FR	AGI	Owen Bx 4466	TE2-9410	Bath, NC
Jones, Johnny Mack	SO	ATE	5655 Western Blvd.		RFD 1, Snow Hill, NC
Jones, Jon Edward	SO	ARC	213 Syme	TE2-9150	2730 University Dr., Durham, NC
Jones, Larry Gordon	FR	HT	Bx 3576	832-9222	Rt. 2, Hendersonville, NC
Jones, Larry Michael	FR	IATO	109 Watauga Bx 3009	TE2-9447	1204 Brantley Rd., Kannapolis, NC
Jones, Lloyd M. Ray	FR	ARC	107 Hudson St.	TE2-4052	107 Hudson St., Raleigh, NC
Jones, Marilyn Annie	FR	EUT	102 Chamberlain St.	TE4-5151	Box 94, Wilkesboro, NC
Jones, Michael Lee	MR	ME	6-15 McKimmon Vill.		635 W. Lax. Ave., High Point, NC
Jones, Michael Lee	SO	CHE	Berry Bx 4330	TE2-9363	215 Bethune St., Fayetteville, NC
Jones, Morrell, Jr.	FR	AGI	204 Tucker Bx 4679	TE2-9387	Rt. 1, Scotland Neck, NC
Jones, Robert A. Harvey	FR	AGI	315 Watauga		Micro, NC
Jones, O. C., Jr.	SO	EE			Pantego, NC
Jones, Raphael MacIra	UN		2701 Kilgore		1410 Knollwood Rd., Wilmington, NC
Jones, Robert Edgar	SO	CE	119 Bagwell Bx 3319	TE4-9219	Harmon St., Norlina, NC
Jones, Robert Kenneth	FR	AGI	260 Tucker Bx 4727	TE2-9387	Rt. 1 Box 245, Snow Hill, NC
Jones, Robert Mullen	JR	CE	205A Bragaw	TE2-9185	3430 Elliott Ave., Portsmouth, VA
Jones, Roger Alan	JR	ME	Bx 5500	TE2-9353	2328 S. Scales St., Reidsville, NC
Jones, Rossie Bailey, Jr.	JR	ART			Rt. 2, Zebulon, NC
Jones, Stephen Paul	JR	IA	1234 Berry Pl.	828-9875	201 Canterbury Rd., High Point, NC
Jones, Tony Randall	SO	ATE	16 N. Boylan Ave.		Rt. 1, Maple Hill, NC
Jones, Van Michael	FR	EE	353 Owen Bx 4564	TE4-9300	612 James St., Laurinburg, NC
Jones, Walter Bascomb, Jr.	FR	EE	3009 Wade Ave.	VAB-5883	3009 Wade Ave., Raleigh, NC
Jones, Walter Beaman, Jr.	FR	EE	707 E. Pineland Dr.	TE3-0936	707 E. Pineland Dr., Raleigh, NC
Jones, Willard Douglas	FR	IA	Watauga, Bx 3005		Box 54, Farmville, NC
Jones, William L. Gray	SO	EE	223 Gary St.	TE4-7406	223 Gary St., Raleigh, NC
Jones, William L. Gray	SO	EE	107 Syme Bx 3507	832-9288	RFD 1 Box 359, Kernersville, NC
Jones, William L. Gray	FR	ARC	130 Cox Ave.		1018 North Main St., Rutherfordton, NC
Jordan, Alfred Wilmer	JR	ME	2712 Bedford Ave.		207 Sycamore St., Weldon, NC
Jordan, Bobby Thomas	SO	EE	263 Owen		809 W. 23rd St., Lumberton, NC
Jordan, Bruce Clyde	SO	MEA	100 Van Lyke Ave.	TE2-5255	Rt. 3 Box 330, Henderson, NC
Jordan, Ernest Samuel	SO	CHE	11 Dixie Trail	TE2-0945	984 Breeze Hill Rd., Asheboro, NC
Jordan, Horace Mendall	JR	AMA	1000 Hill		524 Patterson Ave., Kannapolis, NC
Jordan, Jack Pritchett	JR	AT	333 Alexander Bx 4195	TE2-9349	Box 98, Mt. Gilead, NC
Jordan, John Durrell, III	JR	AT	2718 Clark Ave.	TE2-6451	Rt. 2 Box 96, Clarkton, NC
Jordan, Kenneth Lee	JR	EE	Wilson Trailer Pk.		Box 87, Mt. Holly, NC
Jordan, Leon Barry	FR	EE	227 Tucker Bx 4698	TE2-9387	Aurora, NC
Jordan, Robert Michael	JR	ARC	103 Chamberlain		808 S. Wilmington Ave., Dunn, NC
Jordan, Thomas Andrew	JR	TAT			Cedar Falls, NC
Jordan, Timothy Alexander	SO	MEA	262 Owen Bx 4513	TE2-9252	6315 Highland Ave., Charlotte, NC
Jorgensen, David Barrett	JR	ME			1111 N. Duke St., Durham, NC
Joyner, Stella	MR	AP	404 Chamberlain St.	VAB-0262	404 Chamberlain St., Lima Peru
Journigan, Richard S.	FR	IA	227 Owen Bx 4482		Rt. 2, Whitakers, NC
Joyce, Richard Gray	FR	EE	19 Dixie Trail	TE2-1764	East Bend, NC
Joyner, Franklin Carlyle	JR	IA	7 Enterprise St.	TE4-0435	1809 E. 8th St., Charlotte, NC
Joyner, Henry Lee, Jr.	JR	EE	407C Bragaw Bx 15167	TE2-0133	400 E. Powell St., Clinton, NC
Joyner, John William	JR	MEL	129 Becton Bx 3929		Rt. 1, Hobberville, NC
Joyner, John William	JR	AGI	2645 St. Mary's St.		Rt. 2, Vanceboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Judd, Joseph Thomas	GR	AS			Nashville, TENN
Juddkins, Malcolm Robert	SR	CHS	326C Bragaw Bx 15361		1018 Georgia Ave., North Augusta, SC
Julian, James Ray, Jr.	SO	IE	Box 5566	TE2-9012	2625 Fernusa Rd., Jacksonville, FLA
Junnarkar, Nalin Vitthalrao	DR	CHE	216 Chamberlain St.	TE-4012	81 Hindu Colony, Bombay 14, INDIA
Jury, Floyd Berwood	MR	ME	1302 Gorman St.	828-3304	1302 Gorman St., Raleigh, NC
Justice, Clarence Edward	SO	ATD	308 Fourth Bx 3134	TE2-9159	Rt. 2, Nebo, NC
Justice, Herbert Adin	SR	CEC	522 Highland Ave.	TE2-8098	E. Main St., Spindale, NC
Justice, John Alan	JR	CEC	2303 Clark Ave.		Box 45, Icard, NC
Justice, Larry Wayne	FR	MED	151 Owen Bx 4442		Faison Ave., Tarkey, NC
Justus, Wallace Gerald	JR	IE	215 Tucker	832-9387	Box 415, East Flat Rock, NC
Kaiser, Stanley Victor	JR	NE	207 Fourth Bx 3125	TE2-9159	201 Erskind Dr. W., Greensboro, NC
Kakar, Sarwan Kumar	GR	TC	15 Maiden Lane		Q-51/52, New Delhi, INDIA
Kale, Charles Lester	SR	TXT	Q-315 McKimmon Vill.		Rt. 1, Mt. Holly, NC
Kale, Patricia Anne	SO	ARC	2208 Garden Pl.	828-5322	106 Callico Dr., Morehead City, NC
Kalil, Michael Lewis	FR	A	367 Tucker Bx 4793		Shelley Rd., Bethel, CONN
Kalowski, Andrew	FR	EST	Bx 3394	834-9151	127 Carolina Blvd., Salisbury, NC
Kanarick, Arnold Frederic	MM	IPS	Q-215 McKimmon Vill.		Q-215 McKimmon Vill., NCSC, Raleigh
Kanipe, John Thomas, Jr.	GR	OIG	112C Bragaw	VA8-5772	Box 3, Fair Bluff, NC
Kanipe, Stephen McArthur	FR	ME	258 Owen Bx 4309		211 Shady Lane, Marion, NC
Kann, Donald Robert	JR	ARC	304 E. Park Dr.	TE2-7638	2802 Manhattan Ave., Baltimore, MD
Kantar, Tewfik Mete	SO	TXT	Bx 5764		1763 Sok. Ne24, Karsiyaka, Izmir, Turkey
Kappaman, Albert John, Jr.	DR	CS	2701 Broadwell Dr.	TE4-9583	1351 60th St., Des Moines, IOWA
Kato, Takao Angel	MR	GN	P-205 MSH		Francisco Murguia 103B, Mexico 18, M
Katlin, Gerald Howard	GR	APY	1220 Bickett Rd.	TE3-0947	1220 Bickett Rd., Raleigh, NC
Kauffman, Ray Barr	FR	PY	113 Bagwell		213 Queen's Dr. W, Williamsburg, VA
Kaul, Ravindra Nath	GR	AGE	UK 24 Vetville	834-7751	Barbarashah, Kashmir, INDIA
Kavalir, Charles	SO	CRE	Bagwell Bx 3376		5898 S. W. 96th St., Miami 56, FLA
Kavery, John James	SO	ME	125C Bragaw		203 Lorraine Ave., Montclair, NJ
Kayaman, Metin	SO	TXT	Bx 5764	TE2-6219	P.K. 2 Karsiyakdis, Izmir, Turkey
Keane, William Martin	FR	EE	Bx 3583		3822 Crosland Rd., Winston-Salem, N
Kear, James Fountain	FR	PPT	325 Tucker	TE4-9739	1525 Broome St., Fernandina Beach, FLA
Kearney, William Garey	SO	CE	206D Bragaw		691 Beck Ave., Henderson, NC
Kearns, Kenneth Dermot	JR	NE		TE4-9378	1323 Robin Hood Rd., High Point, NC
Keaton, John Austin	UN	A	205 Pearl St. Garner		205 Pearl St., Garner, NC
Keaton, Phil Newman			308 St. Mary's St.	TE2-8839	2719 Monticello Dr., Winston-Salem, N
Keaton, Ralph Michael	FR	EE	205 Pearl St. Garner		Rt. 1, Elizabeth City, NC
Keblawi, Faytal Said	GR	EE	705 Sasser St.	828-4098	Marad St., Beirut, Lebanon
Keech, Leo Berl	JR	MED			Rt. 1, Fasting, NC
Keel, Ralph May	SR	POM	YMCA Bx 5276	TE2-9339	221 Baker Ave., Groton, CONN
Keel, William H., II	SR	EE	206 Ashe Ave.	834-0959	206 Ashe Ave., Raleigh, NC
Keels, Charles Little	MR	AED			
Keen, Charles Albert	FR	EE	229 Owen Bx 4484	832-9252	110 Scott Ave., Fayetteville, NC
Keen, James Edward	SO	MEA	345 Owen Bx 4557		1510 Evergreen Ave., Goldsboro, NC
Keen, Russell Lewis	SO	EE	133 Owen Bx 4428		Box 222, Four Oaks, NC
Keener, Darrell Guy	SO	ME	Bx 15034		Rt. 3, Lincolnton, NC
Keenmm, Carolyn Frances	SR	CHE	107 Shepherd St.	TE2-6221	111 Church St., Hazelwood, NC
Keever, Harold Odean	FR		258 Owen Bx 4509	TE2-9410	Rt. 5 Box 377, Asheville, NC
Keller, Bruce Terrell			Tucker Bx 4790		Rt. 1, Forest City, NC
Keller, Howard Nelson	JR	EE	621 Aycock St.		1304 E. 7th St., Charlotte, NC
Keller, James Joseph	JR	RFA	Philcrest, Rt. 6		51 Delaware Ave., Somers Point, NJ
Keller, John William, Jr.	FR	CHE	113 Watauga	TE2-9443	24 Lookover Lane, Yardley, PA
Kelley, Harold Maxwell	SO	EE	Syme Bx 3595	832-9222	Rt. 5 Box 41, Aiken, SC
Kellison, Robert C.	GR	POR	2717 Vanderbilt Ave.	TE2-2026	207 6th St., Marlinton, W. VA.
Kellogge, Robert Brown	FR	CH	308 Syme	832-9222	2234 Sharon Rd., Charlotte, NC
Kelly, Everette Surratt	FR	ASV		TE3-6472	Box 205, Mocksville, NC
Kelly, Henry Charles			613 Macon Pl.	TE4-7962	613 Macon Pl., Raleigh, NC
Kelly, James Jerald	SO	CHE	3019 Parrior Rd.	834-0625	Rt. 9 Box 430, Charlotte, NC
Kelly, John Austin, Jr.	SO	EE	12LB Bragaw Bx 15252	TE4-9823	Box 467, Elkin, NC
Kelly, Joseph McLean	FR	ME	313 Purches St.	TE3-6877	313 Purches St., Raleigh, NC
Kelly, Rex Pinnell	FR	EE	Tucker Bx 4771	TE4-9239	Rt. 1, Garner, NC
Kelly, Richard MacRae	SO	AKA	305 Tucker Bx 4738		1000 Hillside Lane, Gastonia, NC
Kelly, Samuel Keel	UN		204 Park Ave.	828-8517	204 Park Ave., Raleigh, NC
Kemp, Cora Alice	SO	APA	231C Hillsboro St.	TE4-5031	Rt. 1 Box 165A, Louisburg, NC
Kemp, Larry Whitehurst	JR	IA	UK-31 Vetville		UK-31 Vetville, Raleigh, NC
Kemp, Ramey	FR	CEC	1709 Hillsboro St.	TE3-6901	Forest Lane, Mocksville, NC
Kemp, William Leonard	JR	GS	118 Becton		703 Boddie St., Nashville, NC
Kenan, Graham Harlee	JR	MEA	119 E. Park Dr.		161 Colonial Cir., Wilmington, NC
Kenan, James Allen	JR	MED	307 Owen		Rt. 7, Greensboro, NC
Kendall, Everett Augustus	SR	ME		TE4-9302	Rt. 1, Black Mtn., NC
Kendell, Peter James		EST	Q-212 MSH		15 Hubbard Rd., London, SE27, ENG

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Kendrick, John Alfred	JR	FY	393 Bagwell Bx 1369	TE4-9151	Rt. 1, Dallas, NC
Kendrick, Arthur Lewis	SO	SE	Bx 418	TE2-9257	Rt. 4 Box 159, Kinston, NC
Kennedy, Donald C.	SR	SE	3100 Main Ave.	TE2-2673	Rt. 2, New Bern, NC
Kennedy, Eugene William	JR	SE	Becton Bx 3791		Rt. 2, Millstone, NC
Kennedy, Michael Ray	SO	MEA	512 S. Boylan Ave.	TE3-2939	600 Dixon St., Kinston, NC
Kennedy, Thomas Wayne	FR	CHE	459 Alexander Bx 4165		211 Bachelor St., Enfield, NC
Kent, Richard Edward	JR	LA	3445 Glasgow Bx 14151		68 Highland Blvd., Lynbrook, NY
Kenyon, Billy Gene	FR	TAT	3040 Bx 3254	TE2-9119	Rt. 1, Box 140, Stearns, NC
Kenyon, John William, Jr.	SR	SE	5708 Waycross St.	TE4-4996	Rt. 2, Hillsboro, NC
Kenyon, Larry Wayne	SO	TAT	3040 Bragaw Bx 15105		Rt. 1 Box 190, Stedman, NC
Kerley, Walter Glenn	SO	ME	Bx 3943		701 Burgess St., Lexington, NC
Kerley, Dennis Leo	FR	ME	202 Bagwell Bx 3334	832-9131	6609 Glenmore Dr., Falls Church, VA
Kerr, George Delno	MR	AFI	1-18 Harrison Vill.		419 Watt St., Circleville, OHIO
Kesler, James William	JR	SE	4-201 McCammon Vill.		Q-223 MSH, MSCS, Raleigh, NC
Kesler, Donald Claude	JR	NE	204 Syme	832-9150	917 Holmes St., Salisbury, NC
Kesler, Walter Allan	JR	SE	4145 Bragaw Bx 15387	TE4-9754	209 Guilford Ave., High Point, NC
Ketner, Terry Brown	SO	ME	2320 Clark Ave.	833-7201	1913 Tippah Ave., Charlotte, NC
Key, Hugh Dennis	JR	TAT	108 Becton Bx 3708	TE2-9256	Rt. 2 Box 412, China Grove, NC
Key, Robert James	SR	ME	2702 Hillsboro St.	TE2-1835	3518 N. Cherry St., Winston-Salem, NC
	SR	ME	2405 Clark Ave.	TE2-6543	603 Rosemont Ave., S. Charleston, WVA
Key, Mary Elizabeth	JR	CH	2512 Vanderbilt Ave.	TE4-8656	Rt. 1, Horse Shoe, NC
Key, William Seward	FR	MEA	1000 South	832-9115	110 Edgewood Ave., Henderson, NC
Keys, William Chandler	SO	FY	100 Woodburn Rd.	TE4-8068	Horse Shoe, NC
Khalifa, Khalid Zaidan	MR	PSC	611 Walker Bx 4813		57 Willowbrook Rd., Asheville, NC
Kiang, Paul Ping-Yiu	GR	EST	Hillsboro YMCA		Almathanna Library, Baghdad, IRAQ
Kidder, James Lee	FR	A	2726 Clark Ave.	TE3-1482	91 Arrenel St., Wanchai, HONG KONG
Kiger, Bobby Gray	FR	ME	3141 Standhope Ave.	TE2-0263	37 Bassett St., Pt. Bragg, NC
Kiger, Roger Dale	FR	ME	492 Watauga Bx 1020	TE2-9132	Rt. 1 Box 120, Rural Hall, NC
Kilby, Bobby Cecil	SR	TXT	121 S. Boylan Ave.		Millers Creek, NC
Killebrew, William Henry	FR	ASV	Bx 4408	TE2-9115	Rt. 2, Rocky Mount, NC
Killian, Charlie McCoy	SO	TE	Bx 14412		Rt. 1, Mt. Holly, NC
Killian, Donald David	SR	SEC	2114 Myrtle St.	832-2743	Houston, MO
Killough, Joseph Allen	SO	SE	106 Ashe Ave.		Box 6, Indian Trail, NC
Killough, Richard Eugene	JR	SE	Bx 546	TE4-9300	Rt. 3, Indian Trail, NC
Kilpatrick, Andrew Harris	JR	SE	Bx 5656	TE2-0268	1201 E. 2nd St., Greenville, NC
Kilpatrick, Jerry Blanton	JR	ME	326 Alexander Bx 4189	TE2-9329	29 Valley Park, Chapel Hill, NC
Kim, Dong-Wha	GR	TXT	Bx 5823	TE4-9123	280-378 Bul Kwang Doug, Seoul, KOREA
Kim, John Ryun	GR	NE	Bx 5768		306-2 Hyungdaydong, Seoul, KOREA
Kim, John Ryun	UN	EE	Bx 5768		Seoul, KOREA
Kim, John Ryun	SR	LES	1026 Boylan Dr.	TE3-1785	Seoul, KOREA
Kimmer, Hurley Edward	FR	TAT	Bx 4627		Rt. 3 Box 612, Salisbury, NC
King, Aldin S.	FR	ME	2109 Myrtle Ave.		508 Glenway Ave., Bristol, VA
King, George Belk	JR	GR	4420 Laurel Hills Rd.	TE4-4949	101 Woodland Dr., Concord, NC
King, Henry Frank	GR	SE	155 Owen	TE2-9437	Rt. 5 Box 352, Salisbury, NC
King, Horace T.	SO	ME	302 Tucker Bx 4235		100 Keaton, Wilmington, NC
King, Jack Claude	SO	POW	102B Bragaw Bx 15212		Rt. 1, Providence Forge, VA
King, Jamie Hartman, Jr.	JR	SHD	3 Dogwood Dr., Cary	467-9447	Box 384, Cary, NC
King, Lee Ellis	FR	SE	K-16 MSH	828-6700	RFD 1, Jamestown, NC
King, Michael James	SO	SE	103 Becton Bx 3703	TE2-9256	C-3-C Univ. Apts., Durham, NC
King, Robert Daniel	FR	SE	518 Carolina Pines	TE2-1290	518 Carolina Pines Ave., Raleigh, NC
King, Robert Sherrill	SO	POW	16 N. Boylan	TE2-4073	2912 Harvard Dr., Wilmington, NC
King, Roger Cleve	GR	FR	359 Tucker	TE2-9325	Rt. 3 Box 457-A, Mt. Airy, NC
King, Ronald Alvis	JR	CHE	118 Alexander		Rt. 1 Box 331, Seagrove, NC
King, Thomas Letson, III	SO	MEA	203 Syme Bx 3535	TE2-9150	1405 Richardson Ave., Anchorage, Alaska
King, William	SO	CHE	330 Turlington Bx 4292	TE2-9142	1509 Jackson Ave., Florence, SC
King, William Jordan	JR	ME	1509 Hillsboro St.		4929 Pine St., Wilmington, NC
Kingson, Carleton Franklin	SO	TXT	104 Alexander	834-8143	1050 Park Ave., New York, NY
Kinken, Philip Glenn	FR	SE	213 Tucker Bx 4712	TE2-9387	127 Newfound St., Canton, NC
Kirk, Thomas Kent	MR	FOR	1349 Baez St.	828-6072	42 Church St., Charleston, SC
Kirkin, Philip Glenn	MR	FOR	1349 Baez St.		
Kinney, Henry Clay	FR	ME	309 Tucker	TE2-9323	1228 Perimeter, Brookley A.F.B., ALA
Kinney, Neal Bennett	FR	ME	106 Welch Bx 3242	TE2-9119	1209 W. Gold St., Wilson, NC
Kirk, Bettey Kay E.	FR	ME	N-14 McKimmon Vill.	832-8887	300 Stephens Ave., Natchitoches, LA
Kirk, John Clay	JR	ME	1809 Park Dr.		717 W. Council St., Salisbury, NC
Kirk, Thomas Kent	MR	ME	N-14 McKimmon Vill.		1453 Washington, Natchitoches, LA
Kirkland, Charles Fredrick	SO	ASV	123 Tucker Bx 4364	TE2-9367	1229 Park Ave., Henderson, NC
Kirkman, James Ralph, Jr.	JR	CHE	1254 Woodburn Rd.	TE3-6901	4813 Tuckaseegee Rd., Charlotte, NC
Kirkman, Robert Clyde	JR	MEA	Bx 4189	TE2-9132	Rt. 2, Elon College, NC
Kirkpatrick, Thomas Riley, Jr.	FR	ARC	1103 Harvey St.	VA8-2396	1103 Harvey St., Raleigh, NC
Kiser, Clyde Loyd	JR	MEA	215 Bragaw Bx 15079		Rt. 4, Asheboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Kiser, George Leon, Jr.	JR	AMA	J-22 McKimmon Vill.	832-5337	J-22 McKimmon Vill., Raleigh, NC
Kiser, Jack Leonard	SR	MIA	1216 Franklin Rd.	TEA-7452	Rt. 1, Sherrill's Ford, NC
Kiser, Richard Mike, Jr.	SO	POR	4166 Bragaw Bx 15395	TEA-9754	Rt. 1 Box 244, Vale, NC
Kitchin, James Richardson	SO	AGI	719-F Chamberlans Ave.		Box 276, Scotland Neck, NC
Kittelson, Harold Lee	DR	GN	207 Gold Bx 3219	TEA-9263	Stewartville, MINN
Kittrell, George Parker, Jr.	JR	ATH	129 Becton		Coraepake, NC
Kivett, John Eugene	SO	SE	130 Woodburn Rd.	TEA-8068	403 Kirkland St., Greensboro, NC
Kivett, Paul Warner	SO	PI	213 Berry Bx 4332	TEA-9363	204 Craig St., Greensboro, NC
Klatt, Fred Walter	SR	ME	408 Weaver Dr. Cary	HOE-5552	208 Weaver Dr., Cary, NC
Klein, Hans-Joachim	TAT		127 Burlington Bx 4224	834-9279	Richard-Strauss-Allee 23, Munster - Ba. W. Germany
Alekowski, Edward Joseph	ME	GN	224 Woodburn Rd.		50 N. Harbison St., Indianapolis, I
Kline, Helen B.	UN	GS	2627 Fairview Rd.	TEA-4738	2627 Fairview Rd., Raleigh, NC
Kling, Charles Lee	GR	NE	Hillsboro YMCA	TEA-6601	1600 Queens Rd., Kinston, NC
Klingerman, James Lewis	SR	AMA	201 Murphy Dr., Cary	467-9828	11 W. Oak Dale, Jesso, PA
Klutts, John David	JR	ARC	1508 Hillsboro St.	TEA-6153	Box 16, Granite Quarry, NC
Kultz, Marvin Glenn	EN	E	239 Sorrell St., Cary	467-3262	239 Sorrell St., Cary, NC
Knappe, Robert Eugene	DR	AGR	249 Tucker Bx 4716	TEA-9387	2042 Baker Ave., Ustica, NY
Knappenberger, Herbert Allan	DR	EST	3153 Ward Rd.	TEA-5928	3153 Ward Rd., Raleigh, NC
Kneeshaw, David Wayne	FR	A	226 Burlington Bx 4254	TEA-9297	Rt. 2 Box 218, La Grange, NC
Knight, James Ralph, Jr.	GR	OIG	515 Gardner St.	TEA-1196	515 Gardner St., Raleigh, NC
Knight, James Woodrow	FR	ONE	125 Tucker	TEA-9367	208 Milford Hills Rd., Salisbury, I
Knight, William Felton	JR	ES	217 Alexander	TEA-9740	Rt. 1, Kenly, NC
Knight, William James	DR	ENT	P-202 MSH	832-8358	Further Church Road, Nelson, ENGLA
Knott, Charles Franklin	SO	ME	207 Park Dr.		1000 Forest Hills Blvd., Durham, MI
Knott, Gerald Hubert	SR	ARC	1908 Carroll Dr.	TEA-1735	1908 Carroll Dr., Raleigh, NC
Knott, Grady Daniel	SO	EE			322 Barbour St., Clayton, NC
Knott, Larry Connell	SO	AGI	352 Owen Bx 4563	TEA-9300	RFD 1, Fuquay, NC
Knott, Marsh Wendell	SO	ABA			Old Zebulon Rd., Wendell, NC
Knowles, S. Gordon	SR	ME	21 Enterprise St.	TEA-2815	208 21st Ave. N.W., Hickory, NC
Kobylars, Thaddeus John	DR	EE	2510 Colton Pl.	828-9251	106 Main St., Garfield, NJ
Koerberling, Ernest Marshall	SO	ME	1110 Bragaw	TEA-9129	121 S. Main St., Lenoir, NC
Koehler, Robert Marshall	JR	ME	Becton Bx 3702	TEA-9256	Box 691, Stanley, NC
Koehly, Joseph	MR	NE	904 Brooks Ave., Garner	362-1156	1828 King Ave., Dayton, OHIO
Koella, Jon Anthony	SR	TAT	1409 Beaver Dam Rd.	828-7574	Rockford, TENN
Kokoska, Michael Nevitt	JR	AMA	328 Becton		3500 Commonwealth, Charlotte, NC
Koonce, Eugene Carlyle, Jr.	SR	EE	3138 Bragaw Bx 15128		Rt. 4 Box 405, New Bern, NC
Koonce, William Turner	FR	GS	3347 Alleghany Dr.		3347 Alleghany Dr., Raleigh, NC
Koontz, Dickie Kermit	FR	PD	108 Syne Bx 3508	832-9288	Rt. 1 Ragsdale Rd., Jamestown, NC
Koontz, Joe Thomas	SO	TAT	215A Bragaw Bx 15076		Rt. 6 Box 334, Salisbury, NC
Koppel, Ants	SR	EE	1501 Benahan St.	TEA-0271	1114 Homeland Ave., Greensboro, NC
Korma, William Milan	FR	ME	262 Tucker Bx 4729	TEA-9387	2801 Gay Ave., Richmond, VA
Kornegay, Summie Ray	FR	A			Rt. 6 Box 242A, Coldeboro, NC
Kornhuber, James Otto	SK	TAT	6 Stadium		Caixa Postal A308, Rio De Janeiro, Brazil
Korte, Herbert William	SO	ARC	106 Gold Bx 3206	TEA-9263	96 Ampere Parkway, E. Orange, NJ
Kozarsky, Anthony Paul	SR	RFA	411C Bragaw		47 Wind Haven Rd., Pittsburgh, PA
Kozewski, Christopher	FR	KEE	303 Watauga Bx 3039	TEA-9132	1125 Ayles Ford Rd., Charlotte, NC
Kovalsky, Francis Julius, Jr.	SO	AMA	1317 1/2 Dale St.	834-5428	1317 1/2 Dale St., Raleigh, NC
Kovel, Maxim Isaac	MR	NE	2416 Shannon St.	834-9462	1100 W. 10th St., Brooklyn, NY
Krall, Ronald Jerome	SR	RFA	105A Bragaw	TEA-9129	250 11th St., Conway, PA
Krauss, William Henry	SR	ME	525 W. Blount St.		409 Clarice Ave., Charlotte, NC
Krayn, Gabriel	SO	ARC	225 Forest Rd.		Haifa, Israel
Kreickel, Gerald Joseph	SR	RFA	218 Burlington	TEA-9297	137 Phillips Ave., Trenton, NJ
Kreiss, Richard David	SO	TAT	Bragaw Bx 15197		373 Northfield Rd., Woodmere, NY
Kreps, Jeffery Allen	SK	ARC	1821 Glenwood Ave.	TEA-8089	2503 Woodland Ave., S. Charleston,
Krezanosky, Louis Thomas	SR	EE	4154 Maple St., Hume, PA		146 Maple St., Hume, PA
Krickbaum, William Joseph	FR	CEC	308 Horne St.	TEA-7050	Rt. 1 Box 48, Franklin, NC
Kruger, Daniel Wood	SO	AMA	116 Becton	TEA-9256	338 Buffalo Rd., Statesville, NC
Krider, Kerr Julian, Jr.	JR	TAT	2612 Clark Ave.	TEA-9484	228 W. Monroe St., Salisbury, NC
Kruger, William Paul	JR	RFA	Bx 15195		228 W. Monroe St., Salisbury, NC
Kroeger, James Kenneth	SO	EE	3309 Leonard	VAI-5262	3309 Leonard St., Raleigh, NC
Kroeger, Joseph H.	SR	GS	222 Park Ave.		222 Park Ave., Raleigh, NC
Kropf, Philip Joseph	SO	TE	409 Chamberlain	TEA-9565	Box 264, Jamestown, NC
Krueger, Gary Louis	SR	EE	409B Bragaw	TEA-9757	1148 Seneca Pl., Charlotte, NC
Krueger, Gary Lee	SO	ME	Bx 15168	TEA-9757	1148 Seneca Pl., Charlotte, NC
Krummacker, William Fred	SO	ASL	221 Burlington Bx 4249	TEA-9297	115 Valley View Ave., Troy, NY
Kruse, Erling Ove	UN	EE	3344 Mayview Rd.	928-4442	3344 Mayview Rd., Troy, NY
Ku, Chiu Ho	JR	SE	114 Becton	TEA-9256	18 Hano Rd., Kowloon, HONG KONG
Kudryan, Walter John	JR	RFA	Bx 15087		730 McCoy Rd., McKees Rocks, PA
Kueli, Robert Otto	DR	EST	2510 Vanderbilt	834-4072	Schleswig, IOWA
Kuehn, Curtis Stanley	SO	ARC	Bx 15082		6 Curtis Dr., Asheville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Kugler, David Richard	SR	WT	104 Owen		104 Owen, New York
Kuhreman, Alfred Thomas, Jr.	FR	EL	277 Owen Bx 4488	TE2-9410	277 Owen Bx 4488, New York
Kulash, Walter Michael	SR	IE	20 Bagwell Ave.	TE2-7407	20 Bagwell Ave., Raleigh, NC
Kunka, Robert Louis	SR	IE	20 Bagwell Ave.	TE3-9256	510 Nelson Dr., Jacksonville, NC
Kurtz, David Lee	SR	IA	1018 Nichols Dr.	TE4-5984	1018 Nichols Dr., Raleigh, NC
Kuschnir, David Alexander	SR	MA	2512 Clark Ave.	TE2-4843	Rt. 2 Box 351, Cherryville, NC
Kuschnir, David Lee	SR	MA	2512 Clark Ave.	TE2-4843	910 Seymour Ave., Lansing, MICH
Kuykendall, Joel Felix	SR	CE	2512 Clark Ave.	TE2-9410	93 N. Canton Rd., Canton, NC
Kyles, Alan L.	SR	MA	2512 Clark Ave.	TE2-9410	Box 92, Troutman, NC
Kyles, David Alexander	SR	MA	2512 Clark Ave.	TE2-9487	Box 24, Barium Springs, NC
Lacayo, Herbert, Jr.	SR	MA	1001 Southerland Rd.	VAB-4776	447 McRae Dr., Fayetteville, NC
Lacayo, Herbert, Jr.	SR	MA	207 Gold	TE2-9267	1730 W. Pensacola St., Tallahassee, FLA
Lackey, Walter Jackson, Jr.	SR	ME	103 Carr UNC	832-9415	418 7th Ave., P.L.N.W., Hickory, NC
Lackey, Walter Jackson, Jr.	SR	ME	103 Carr UNC	832-9415	Box 85, Fallston, NC
Ladwig, Walter Carl	SR	ABC	103 Carr UNC	832-9415	223 W. York St., Sumner, FLA
Lai, Phillip Man-Fung	SR	AMA	103 Carr UNC	TE2-9297	24A Granville Rd., Kowloon, HONG KONG
Lail, Rupert Carroll, Jr.	SR	MA	305 Owen Bx 4522	828-6980	201 Ferguson Ave., Newport News, VA
Laird, Charles Shaw, Jr.	SR	MA	2509 Wake Dr.	TE2-9410	105 N. K. St., Raleigh, NC
Lakins, Larry Lemarr	SR	ME	Clark Hall	832-9415	192 Bear St., Raleigh, NC
Lambe, Francis Louis	SR	IE	204 Becton	TE2-9334	126 Henderson St., Raleigh, NC
Lambert, Cecil Van, Jr.	SR	EE	J-25 McKimmon Vill.	834-9836	Rt. 2, Morley, MICH
Lambert, Jerry Roy	SR	AGE	Rt. 1, Cary	832-4549	609 Laundry St., Kannapolis, NC
Lambert, John Hall	SR	MA	Box 494, Cary	MO7-2882	Box 494, Cary, NC
Lambert, Robert Luther, Jr.	SR	MA	2407 Clark Ave.	TE2-2480	Box 219, Cullowhee, NC
Lambeth, Charles Stanley	SR	CE	307 Turlington	832-9192	1604 Lowder St., Albemarle, NC
Lamm, Charles Howard	SR	CE	907B St. Mary's St.	832-9180	905 Westridge Rd., Greensboro, NC
Lamm, John Anthony	SR	FOR	Owen Bx 4488	832-4549	Rt. 2 Box 207, Elm City, NC
Lamm, John Anthony	SR	FOR	Owen Bx 4488	832-4549	Rt. 2, Nashville, NC
Lamm, Walter Jay	SR	MA	109 Ann St., Cary	467-1577	109 Ann St., Cary, NC
Lancaster, Bobby Nelson	SR	MA	109 Ann St., Cary	467-1577	109 Ann St., Cary, NC
Lancaster, David Brian	SR	ABC	3019 Leonard St.	828-6439	960 Parham St., Rocky Mount, NC
Lancaster, Frank Lawrence, Jr.	SR	ABA	133 Tucker Bx 4644	TE2-9300	204 W. 6th Ave., Raeford, NC
Lancaster, Gus Zanders, III	SR	ABA	133 Tucker Bx 4644	TE2-9388	Rt. 1 Box 85, Pinetops, NC
Lancaster, William Darsey	SR	ASV	17 Stadium Bx 4362	832-8406	Rt. 1, Box 85, Pinetops, NC
Land, Frances Ann	SR	AG	1702 Hillsboro	832-8406	412 Hermitage Ct., Charlotte, NC
Land, Harry Kenneth	SR	JS	1702 Hillsboro	832-8406	131 Valley Dr., Leakeville, NC
Land, Samuel Buchanan, Jr.	SR	FCM	1702 Hillsboro	TE2-9185	South Hill, VA
Land, Thomas Jefferson, Jr.	SR	MA	327 Bagwell Bx 3395	815 Pinedale Rd., Ft. Walton, FLA	815 Pinedale Rd., Ft. Walton, FLA
Land, William Henry, III	SR	MA	2922 O'Berry St.	828-9802	2307 Princess Pl. Dr., Wilmington, NC
Landvoigt, Thomas Stephen	SR	CEC	206 Owen Bx 4463	TE2-9410	2819 Gaither St., Washington 21, DC
Lane, Albert Monroe, Jr.	SR	AGI	206 Owen Bx 4463	TE2-9410	RR 2, Rowland, NC
Lane, Claude Murray	SR	CEC	206 Owen Bx 4463	TE2-9410	Grandy, NC
Lane, James Douglas	SR	MA	315 E. Elaine St.	TE2-8158	4815 Dillard Rd., Raleigh, NC
Lane, James Henry	SR	CE	4815 Dillard Rd.	TE4-9300	311 Connor St., Cary, NC
Lane, Richard Hancock	SR	NE	316 Owen Bx 4531	TE4-9300	245 College St., Macon, GA
Lane, Richard Earle	SR	MA	109 Tucker Bx 4622	TE4-9300	Rt. 1 Box 338, Dover, NC
Lane, Robert Earl	SR	MA	109 Tucker Bx 4622	TE4-9300	Rt. 1 Box 338, Dover, NC
Lane, William Jennings, Jr.	SR	ME	1620 Hillsboro	TE4-9378	807 Lee St., Raleigh, NC
Laney, Gerald Noah	SR	IATO	208 Chamberlain St.	828-9960	Maiden, NC
Lang, Burton James	SR	MA	803 D Daniels	828-9960	1933 Lakeview Rd., Albuquerque, NM
Langford, John Robert	SR	CEC	1111 Nichols Dr.	828-8859	NEW MEXICO
Langlitz, Hans Otto	SR	ENT	612 Buck Jones Rd.	833-3402	409 Rose St., Smithfield, NC
Langston, Andrew MacDonald	SR	TXT	215 Turlington Bx 4243	TE2-9297	612 Buck Jones Rd., Raleigh, NC
Langston, Andrew MacDonald	SR	AS	62 Owen Bx 4596	TE2-9297	Rt. 1, Newton Grove, NC
Lanier, Benjamin Wright	SR	EE	1021 W. South St.	TE4-8180	Rt. 2, Grifton, NC
Lanier, Benjamin Wright	SR	NE	222 Bagwell Bx 3354	823-9131	1021 W. South St., Raleigh, NC
Lanier, Benjamin Wright	SR	NE	222 Bagwell Bx 3354	823-9131	222 N. College St., Wallace, NC
Lanier, Douglas Toney	SR	MA	222 Bagwell Bx 3354	823-9131	2214 Chestnut St., Wilmington, NC
Lanier, William Steven	SR	MA	222 Bagwell Bx 3354	823-9131	913 W. Carr St., Dunn, NC
Lanford, Thomas Barrett	SR	MA	222 Bagwell Bx 3354	823-9131	603 S. Howard Cir., Tarboro, NC
Lao, Tien Ben L.	SR	MA	Apt. N Glenwood Gar.	828-4259	124 Hawthorne Rd., Elkin, NC
Lao, Yek-Ben	SR	MA	2550 Glenwood Gar.	828-4259	17 Agno St., Quizon City, PHIL
Larimore, David Lee	SR	IA	W&L Trailer Haven	828-4259	17 Agno St., Quizon City, PHIL
Larkin, Robert Francis	SR	MA	115 Bagwell Bx 3315	TE2-9132	W&L Trailer Haven, Cary, NC
Larson, George Magnus	SR	CEC	202 Watauga Bx 3020	TE2-9132	515 Watson St., Swainsboro, GA
Laski, George	SR	MA	934 Wilmington Ter.	TE4-9602	9910 Indian Lane, Silver Spring, MD
Laski, George	SR	MA	934 Wilmington Ter.	TE4-9602	934 Wilmington Ter., Raleigh, NC

NAME	YK	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Lesley, Jensen Estley	SO	AMA	438 Syme	TE2-9222	Rt. 4, Lancaster, SC
Leslie, Robert Maynard	SR	LY	Box 5271	VA8-6188	457 N.E. 95th St., Miami, FLA
Leslie, Albert Mayhew	JK	TKT	438 Everett Ave.	TE2-7917	2503 Everett Ave., Raleigh, NC
Leslie, Bruce Thomas	JK	PAT	2702 Mayview Rd.	TE2-6057	2702 Mayview Rd., Raleigh, NC
Leslie, William Syd	JK	EB	3205 Cynane Cir.		Rt. 3 Box 164, Four Oaks, NC
Leslie, William James	SR	EB	Box 1000	TE2-9102	541 Chester Cir., Fayetteville, NC
Leslie, James Ross	JO	OE	111 Becton	TE2-9334	106 Falkener Dr., Greensboro, NC
Leslie, James Earl	MR	EB	2601 Bell Dr.		3201 Bell Dr., Raleigh, NC
Leslie, James Earl	JK	EB	Box 177, Durham, NC		Box 177, Durham, NC
Leslie, Richard Singer	MR	EB	4359 McMillan Cir.	828-7316	1520 Belmeade Dr., Kingsport, TENN
Letimer, Steve Benton	JK	ANS	812 S. Blount St.	TE2-6904	812 S. Blount St., Raleigh, NC
Letts, William Martin, Jr.	SR	MB	2244 The Circle	833-2823	2244 The Circle, Raleigh, NC
Letts, Mac Arthur	JK	TKT	438 Everett Ave.	TE2-7917	4323 Garner Rd., Raleigh, NC
Letts, Charles Douglas	SO	ATE	1774 Hillboro	VA8-4464	Rt. 5 Box 140, Rutherfordton, NC
Letts, Charles Douglas	FR	EB	337 Alexander	TE2-9349	121 Gloucester Rd., HONG KONG
Letts, Pedro Ramon	GR	SR	2400 Delta Dr.		Victoria, Oriental Mindoro, PHIL
Letts, David, David, David	SR	PAT	108C Bragaw Bx 15225		1613 W. Vernon Ave., Kinston, NC
Laughinghouse, Gerald Franklin	GR	WT	406 Wayne Dr.	TE2-9150	RPD 2, Vanceboro, NC
Leavander, James Carroll	JK	OE	2401 Everett Ave.	TE2-6797	Rt. 3, Henderson, NC
Leavander, James Carroll	MR	AGE	108B Bragaw Bx 15074	TE2-9185	Box 93, Pelham, NC
Leavander, James Carroll	FR	EB	908 Canterbury Rd.		Marshall Ave., Charlotte, NC
Leavander, James Carroll	FR	EB	303 Syme Bx 3576		5105 Gretchen St., Kensington, MD
Lawrence, Gloria Jean	SC	JK	2207 Hope St.	TE3-6666	6 Tremont St., Asheville, NC
Lawrence, Lewis Lorense, Jr.	FR	POK	331 Owen Bx 4546	TE2-9300	19 Westbrook Dr., Hampton, VA
Lawson, David Edwin	JK	EB	130 Woodburn Rd.	TE4-8068	162 8th Ave. N.W., Hickory, NC
Lawson, James Bruce	SR	EB	184 Horne St.	832-6164	304 S. 3rd Ave., Mayodan, NC
Lawson, James Gordon	FR	EB	253 Spring	832-6164	304 S. 3rd Ave., Mayodan, NC
Lawson, James Willis	SR	ALB	2402 Hillsboro St.	828-7130	Rt. 1, Orrum, NC
Lawson, Thomas Jerry	MR	EB	Box 571A Cary	567-9856	Box 571A RFD 1, Cary, NC
Lawton, Clyde Allison	SR	POK	2608 Dover Rd.		7711 Lagrange Rd., Lyndon, KY
Lawton, Ernest Linwood	JK	TC	119 Georgetown Rd.	TE2-7933	119 Georgetown Rd., Raleigh, NC
Lawman, Charles William	JK	IE	1710 Hillsboro St.	TE4-2001	140 Lullwater Rd., Greenville, SC
Lazareck, Jack Abraham	SO	SR	322 Syme	832-9222	620 Queenston St., Winnipeg, CANADA
Lea, Michael David	SR	AMA	3 Syme Bx 3599	TE2-9222	420 Jamestown Rd., High Point, NC
Leary, Jesse Herbert	SR	PPT	329 Owen		600 Pollock St., Kinston, NC
Leary, William Harold	JK	MEA	1234 Duffy Pl.	VA8-9875	620 Spruce St., High Point, NC
Leary, Stanley Mitchell	SR	ASE	Box 638, Cary	467-2273	Box 638 Rt. 1, Cary, NC
Leary, Robert William	SR	ASE	UK-27 Vetsville	TE3-7487	Box 174, Sanford, NC
Leatherland, John Arthur	FR	FOR	2406 Stafford Ave.	TE2-9511	224 Mill St., Acton, Ontario, CANADA
Leatherman, Marvin Ray	FR	AMA	Bx 4496		Rt. 2, Catawba, NC
Leavander, James Carroll	SR	EB	1-279 Hermann Vill.	832-5893	Rt. 1, Cary, NC
Leavel, Jack Peltre	JK	TKT	3210 Ruffin St.		3210 Ruffin St., Raleigh, NC
Leavel, James Francis	FR	CEC	201 Vauxha Bx 3019		2320 N. Edgewood St., Arlington, VA
Levenson, Robert Jay	JK	TC	304 E. Park Dr.	TE2-7638	79-37 212 St., Flushing 64, NY
LeCroy, Stuart Randall	MR	AMA	1124 Parker St.	833-0337	Rocky Mount, NC
LeCroy, Daryl Eugene	FR	A	343 Tucker	TE2-9323	Rt. 3 Box 115, Laurens, SC
LeCroy, Richard Haynes	FR	CE	258 Owen		695 Fairview Rd., Asheville, NC
LeCroy, Donald Crawford	FR	ABA	723 W. Morgan St.	832-2751	Rt. 2, Franklin, NC
LeCroy, James	MR	CH	H-16 McKimmon Vill.		Dover, NJ
LeCroy, Jerry Vincent	JK	ABC	2112 Mayview Rd.	834-2220	608 Louise Ave., Charlotte, NC
Lee, Cameron Waddell, Jr.	JK	TC	309 Becton	TE2-9372	205 W. Sycamore St., Wake Forest, NC
Lee, Charles Henry	JK	ME	1-279 Hermann Vill.	832-5893	1108 Watson Dr., Wilson, NC
Lee, Chin Kee	JK	BAC	10 Dixie Trail	TE4-3306	30 Sangdo-Dong, Seoul, KOREA
Lee, Dale Newton	FR	CEC	Box 16, Lawndale, NC		Box 16, Lawndale, NC
Lee, Edward Charles, Jr.	JK	ME	207 Becton Bx 3741	TE2-9334	1106 Jones Ave., Elizabeth City, NC
Lee, George, Fong-jen	JK	ME	27264 Clark Ave.		102 Chung Sun 1st Rd., Kao Hsiung, TWA
Lee, George, Fong-jen	JK	ME	27264 Clark Ave.		102 Chung Sun 1st Rd., Kao Hsiung, TWA
Lee, Gurnie Robert, Jr.	JK	ME	Box 16, Lawndale, NC		Box 16, Lawndale, NC
Lee, Hector Boyd	FR	ABD	Box 16, Lawndale, NC	TE2-9523	RD 2, Fremont, NC
Lee, Hiram Howard	JK	CH	103 Syme Bx 3503	TE2-9288	406 Columbus St., Tabor City, NC
Lee, Hiram Howard	JK	CH	103 Syme Bx 3503	TE2-9288	Box 85, Pink Hill, NC
Lee, Jasper Whitfield, Jr.	FR	ABC	2426 Hillsboro St.	834-9459	Rt. 3 Box 556, Washington, NC
Lee, Jerry David	FR	ABC	307 Fourth		1408 W. Nash St., Wilson, NC
Lee, Jerry Stevenson	JK	ME	111 Brooks Ave.	TE2-4608	Box 98, Coats, NC
Lee, Jesse Gabriel	JK	ME	7 Rosemary	TE2-9162	Rt. 1 Box 144, New Bern, NC
Lee, John Charles	JK	ME	21 Enterprise St.	828-8018	729 W. Church St., Laurinburg, NC
Lee, John Charles	JK	ME	302 Horne St.	TE4-2815	Rt. 2, Four Oaks, NC
Lee, Michael Clifton	JK	ME	222 Hillcrest Rd.	VA8-9418	Rt. 2, Raeford, NC
Lee, Michael Clifton	JK	ME	222 Hillcrest Rd.	TE2-7708	Box 15, Graham, NC
Lee, Michael Clifton	JK	ME	222 Hillcrest Rd.	TE2-7708	2300 Davis Park Rd., Gastonia, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Lee, Oscar Davis	JR	ME	1710 Hillsboro		1009 Lafayette, Rocky Mount, NC
Lee, Ramon George	JR	ME	1620 Hillsboro	TE4-9378	182 N. Columbus St., Arlington, VA
Lee, Robert Edward	FR	EE	907 Northview St.	TE3-2067	907 Northview St., Raleigh, NC
Lee, Roger Harold	FR	AGI	319 Tucker Bx 4750	TE4-9739	Rt. 2, Deep Run, NC
Lee, Stephen Worth			131 Tucker	TE2-9367	Rt. 2, Benson, NC
Lee, Sung Won	DR	EST	Box 5773	TE4-3306	142-5, Hyeja-Dong, Seoul, KOREA
Lee, William Alexander	SR	ME	Q-219 MSH	TE4-5122	41 Burnham Pl., Newport News, VA
Lee, William Bedford			Watauga Bx 3038	TE2-9132	Rt. 1, Roxboro, NC
Lefler, Edgar William			209B Bragaw		713 Montgomery Ave., Albemarle, NC
Legg, Paul Davis	DR	GN	Cary		Cary, NC
Leggett, Ilow Waddell, Jr.	FR	ME	115 $\frac{1}{2}$ Park Ave.	828-3580	2225 Providence, Charlotte, NC
Leggett, Wilson, Lurward, III	GR	NE	914 Lake Boone Tr.	TE2-7236	914 Lake Boone Tr., Raleigh, NC
Leggett, Wilson Taylor, Jr.	FR	CE	Bx 4245	TE2-9297	Rt. 2 Box 372, Washington, NC
Lehew, Luther Hill	FR	ME			318 South Lth, Smithfield, NC
Lehrer, Peter M.	SR	CEC	304 E. Park Dr.	TE2-7638	1111 W. Park St., Long Beach, NY
Leidy, Stephen George, Jr.	FR	CE	Bx 3307	TE2-9219	Rt. 5, Goldsboro, NC
Leimone, Louis Andrew	SO	ABP	56 Tucker Bx 4663	TE2-9323	Box 277, Burgaw, NC
Leinster, Joseph A.	SO	EE	333 Becton	TE3-1584	216 S. King Charles, Raleigh, NC
Leimond, R. B.			212 Park Ave.		Rt. 7, Sanford, NC
LeMoine, Larry Keith	JR	NE	405C Bragaw		844 South Pine, Rocky Mount, NC
Lemons, Clarence Amos	SO	AI	2220 Rumson Rd.	TE3-6044	RFD 3 Box 131, Oxford, NC
Lenderink, Tom A.	JR	WT			2425 Mich. Rd. NE., Grand Rapids, MI
Le Neave, Claudia Kay	FR	MED	3721 Baugh St.	TE4-6839	3721 Baugh St., Raleigh, NC
Lengade, Apparao Tatyaao	JR	CHE	3011 Hillsboro St.		2162 Kovegalli, Mysore, INDIA
Lennon, Charles L.	FR	FOR	21 Becton Bx 3822	832-9261	RFD 1, Bladenboro, NC
Lennon, Daniel Edward	SR	TVT	Box 71, Cary	TE2-5774	Rt. 1 Box 71, Cary, NC
Lennon, Edward Allen	JR	EE	2514 Clark Ave.		514 Riverside Dr., Morganton, NC
Leon, Frederic Roland	SR	ME	2207 $\frac{1}{2}$ White Oak Rd.	VA8-4171	2207 $\frac{1}{2}$ White Oak Rd., Raleigh, NC
Leonard, Bobby Eugene	GR	APY	1502 Duplin Rd.	TE3-7958	1502 Duplin Rd., Raleigh, NC
Leonard, David Kenneth	SO	CEC	220B Bragaw Bx 15295		Rt. 6 Box 304, Lexington, NC
Leonard, Herbert Gene	SO	NE	160 Owen Bx 4451		Rt. 2, Lenoisburg, NC
Leonard, Percy Dennis	JR	ME	418B Bragaw Bx 15397	TE4-9754	504 Northridge St., Greensboro, NC
Leonard, Ralph Avery	DR	SSC	2301 McWilliam Cir.	834-4894	Rt. 2, Lenoisburg, NC
Leonard, Robert Leo	SR	CEC	309 Brooks Ave.	833-1217	309 Brooks Ave., Raleigh, NC
Leonard, Tice Nicholas, Jr.	UN	ARC	329 Becton Bx 3797		750 Asmore Dr., Charlotte, NC
Leonard, Charli Conrad, Jr.	FR	GS	109 Tucker Bx 4622	TE2-9388	Rt. 4, Lexington, NC
Leonard, Wendell Holmes, Jr.	FR	ARC	327 Tucker	TE4-9739	155 Fairmont Cir., Danville, VA
Leonhardt, Carson Odes	SR	FOH	Box 341A, Cary	467-3963	Rt. 3 Box 605, Morganton, NC
Leopold, Richard	FR	TVT	22 Stadium		108 -30 70th Ave., Forest Hills, NY
Lester, Gerald Thomas, Jr.	SO	CRE	102C Bragaw Bx 15213	TE2-9180	903 Rhem St., Kinston, NC
Leroy, Dwight Schofield	FR	TVT	328 Syme	832-9222	18 Smythe Ave., Balfour, NC
Leslie, Phillip Bennett	JR	TVT	2426 Hillsboro St.	TE4-9859	Fairfield Cir., Dunn, NC
Leslie, Peter Ashby	SR	AMA	Bx 15233	VA8-5112	506 Dutchman Ave., Mt. Holly, NC
Lester, George W.	SR	IE	1720 Hillsboro St.		808 Starling Ave., Martinsville, VA
Levine, Jerry Michael	GR	FSY	Bx 3227	TE2-9263	34 Green Twig Dr., Toms River, NJ
Levy, Jack Benjamin	FR	CH	Bx 5672		28 Thackeray Pl., Savannah, GA
Levy, Ruben	FR	IE	347 Tucker	TE2-9323	Javier Prado 1415, San Ysideu, Lima, PERU
Lewis, Alexander James	FR	ARC	22 Becton Bx 3823	TE2-9261	Box 365, Bethel, NC
Lewis, Clifton Roger	FR	TVT	209 Alexander	TE4-8746	2351 Randleman Rd., Greensboro, NC
Lewis, Emanuel	JR	NE	2331 Grant Ave.	TE4-0051	2331 Grant Ave., Raleigh, NC
Lewis, James Palmer	JR	EE	224 Alexander Bx 4153	TE4-9746	Box 234, Troutman, NC
Lewis, James Thomas	SR	ASZ	116 Pleasant Ave. Cary	HO7-9452	116 Pleasant Ave., Cary, NC
Lewis, James Wesley, Jr.	FR	IE	Stadium		1402 Grace St., Wilmington, NC
Lewis, Jim Stephen	SO	CEC	2402 Hillsboro St.	828-7130	Box 422, Fairmont, NC
Lewis, John Franklin	SO	CHE	201 Becton Bx 3735		510 Washington Ave., Hamlet, NC
Lewis, Jon Reid	SO	ME	121 Alexander	TE2-9257	607 Market St., Fairmont, NC
Lewis, Joseph Isaac	SR	POM	1508 Frank St.		Rt. 1, Middlesex, NC
Lewis, Kenneth McMillan	MR	PSC	2412 Van Dyke Ave.		RFD 6 Box 604A, Fayetteville, NC
Lewis, Luther Vance	JR	EE	N-23 MSH		N-23 MSH, NCSC, Raleigh, NC
Lewis, Robert Alvin, Jr.	FR	MEA	210 Watauga Bx 3028	TE2-9132	125 Warren Ave., Oxford, NC
Lewis, Robert O'Neal	SR	IA	111 Bagwell		401 Miller Blvd., Havelock, NC
Lewis, Roger Wesley	FR	MEA	137 Owen Bx 4431	TE2-9115	1507 Highland Ave., Greensboro, NC
Lewis, Stephen Andrew	JO	AGI			Fairfax, SC
Lewis, William Ernest	JR	CHE	Bx 3613	TE2-9421	Rt. 6 Box 186, Greenville, NC
Lewis, William Henry	JO	AMA	2514 Clark Ave.		802 Hudson Ave., Durham, NC
Lichtblau, Larry Rudolf	JR	ARC	208 Welch	TE2-9119	RD 7, York, PA
Lients, Sharon Douglas	JO	AMA	9 Becton Bx 3811	832-9261	621 Horseshoe Rd., Richmond, VA
Liles, David Ray	JR	EE	2426 Hillsboro St.	834-9859	Hillbrook Blvd., Siler City, NC
Liles, Donald Charles	FR	ARC	308 Welch Bx 3268		2438 Bay St., Charlotte, NC
Lilly, Douglas Seaton	GR	EE	205 Alexander Bx 4134	TE4-9746	130 N. Wall, Abingdon, VA

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Ally, Douglas Swaton	SR	EE	105 Alexander Bx 4134	TEA-9472	130 N. Wall St., Abingdon, VA
Ally, Helen Patricia	MR		1101 Gatling St.	TEA-9472	1101 Gatling St., Raleigh, NC
Ally, James Robert	PR	SE	131 Owen	TEA-9472	411 Owen St., Chapel Hill, NC
Ally, John Paul	PR	AGE			Box 740, Manila, PHILIPPINES
Ally, Vincent Pan	SR	TO	Bx 5906	328-4444	1-1 Lane 82, Fu Yuen St., Taiwan
Ally, James Chia-Hung	MR	UN	2402 Hillsboro St.		111 Lane 82, Fu Yuen St., Taiwan
Ally, Yung-Huan	MR	PER	111 Lane 82		111 Lane 82, Fu Yuen St., Taiwan
Ally, Edward Steven	PR	EE	2017 Burlington		512 Queens Rd., Sanford, NC
Ally, Shirley Bernell	MR	EE	3102 Raymond St.	TEA-9472	111 Lane 82, Fu Yuen St., Taiwan
Ally, Nathan	MR	EE			111 Lane 82, Fu Yuen St., Taiwan
Ally, Maldon Eugene, Jr.	PR	IATO	1702 Hillsboro St.		7409 Havelock St., Springfield, VA
Ally, John William	SO	AGI			Rt. 1, Siler City, NC
Ally, Anthony Gene	SR	TXT	308 Horne St.	TEA-7050	503 Stewart Ave., Clinton, NC
Ally, David Ray	PR	MEA	249 W. Bx 4544	TEA-9300	Rt. 1, Lumber Bridge, NC
Ally, Alfred Walter	SR	PPT	424 B. Bx 15204		1110 S. Park Ave., Haddon Hgts., NJ
Ally, Kenneth Hubbard, III	SO	EE	326 Owen Bx 4544	TEA-9300	550 Walnut Dr., Hendersonville, NC
Ally, John Hall	PR	POR	100 Watauga	TEA-9447	Drakes Cor. Rd., Princeton, NJ
Ally, James Warren	JA	EE	102 Becton Bx 3702	TEA-9256	Rt. 2 Box 78, Gastonia, NC
Ally, Jerry North	SR	ME			529 W. Third Ave., Gastonia, NC
Ally, Paul Neal	SO	ABD	117 Watauga	TEA-9447	Box 78, Gastonia, NC
Ally, Ronald Charles	SO	SE	Watauga Bx 3017	TEA-9447	Rt. 2 Box 17, Dallas, NC
Ally, Logan Weaver, III	SR	EE	5701 Hillsboro St.	828-5905	Randleman, NC
Ally, Harry Lee, III	SR	AGE	111 Clark Ave.		829 Love Lane, Waynesville, NC
Ally, Hugh Hampton	SR	AGC	358 Meredith St.	833-8294	358 Meredith St., Raleigh, NC
Ally, Robert Thayer	SR	NE	234 Shepherd St.	834-2514	234 Shepherd St., Raleigh, NC
Ally, Chi-Hai	SR	ME	2726 Clark Ave.		7 Alley 11, Lane 162, Wen-Hua St., Yong-Ho, Taipei, Taiwan, CHINA
Ally, William Nelson	SR	MEA			Box 1, Faith, NC
Ally, John Pritchard	PR	ARC	110 Watauga Bx 3016	TEA-9447	Ridgeway St., Warrenton, NC
Ally, Wayne Helm	SR	SE	303 Becton Bx 3771	TEA-9372	2908 Bon Air Ave., Winston-Salem, NC
Ally, William George	SR		115 Wilmot Dr.	832-0895	RR 6, Valparaiso, IND
Ally, Ronald Nelson	SR	AGE	Syme Bx 3526		411 S. 19th St., Wilmington, NC
Ally, James Reid	SO	TXT	Berry	TEA-9303	226 N. Depot St., Albemarle, NC
Ally, Robert Suter	SR	EST	215 YMCA		223 Old County Rd., Severna Pk., MD
Ally, Stanton Prince, Jr.	PR	SE	3008 Alameda Jr.	TEA-2969	3601 Alameda Jr., Raleigh, NC
Ally, Brian Edward	SR	ME	Box 5566	832-9353	6016 24th Ave. N., St. Petersburg, FL
Ally, Daniel Craig	SO	A	723 W. Morgan St.	832-2751	Box 22, Pittsboro, NC
Ally, Daniel Rader	SR	MM	614 Washington St.	832-8884	West Jefferson, NC
Ally, James Ray	PR	NE	118 Berry Bx 4344		Rt. 1, Midland, NC
Ally, Ned Bower	SR	EE	112 Alexander Dr.	833-6126	Rt. 1 Box 4, Jefferson, NC
Ally, Thomas Wayne	PR	SE	614 Washington St.		Rt. 2, West Jefferson, NC
Ally, William Harold, Jr.	SR	EE	250 Tucker Bx 4717	TEA-9387	2920 Barringer Dr., Charlotte, NC
Ally, Thomas Anthony	SR	EE	521 Dixie Trail		431 Rudd St., Burlington, NC
Ally, Charles Dwaine	SR	TC	1601 Ridge Rd.	VAB-3549	1601 Ridge Rd., Raleigh, NC
Ally, Matt Matthews	SR	EE	107 Becton Bx 3707	TEA-9256	111 Lane 82, Fu Yuen St., Taiwan
Ally, Donald Cameron	SR	TXT	1228 N. Wilmington		Box 295, Bryson City, NC
Ally, William Robert, Jr.	SR	PPT	3212 Merriman		White Oak, NC
Ally, Charles Robert	SR		25124 Everett St.	828-6265	810 Whitford St., Sanford, NC
Ally, Donald Gray	SR	UN	2402 Mayview Rd.		111 Lane 82, Fu Yuen St., Taiwan
Ally, Mau Hui	SR	SE	2726 Clark Ave.	TEA-1482	111 Lane 82, Fu Yuen St., Taiwan
Ally, Richard Henry	PR	SE	1317 Rand Dr.	TEA-6531	1317 Rand Dr., Raleigh, NC
Ally, Chester DeWitt, Jr.	SR	EE	4204 B. Bx 15415	TEA-2934	4493 Tise Ave., Winston-Salem, NC
Ally, Gaynell Paul	SR	ME	2817 Mayview Rd.	828-7350	2817 Mayview Rd., Raleigh, NC
Ally, John Richard	PR	ME	215 Becton Bx 3749	TEA-9334	3790 Sarah Dr., Wantagh, NY
Ally, Don Courtney	PR	OS	Tucker Bx 4814		3701 Severn Ave., Charlotte, NC
Ally, Ray Hamilton	SO	AGI	2426 Hillsboro St.	TEA-9859	Rt. 1 Box 59, Chocowinity, NC
Ally, Joe Forrest	SR	TXT	P-24 McKimmon Vill.	828-8075	Rt. 1, Mt. Ulla, NC
Ally, Clyde Wilborn	SR	EE	Fourth	TEA-9159	373 Haywood Rd., Asheville, NC
Ally, Jerry Eugene	SR	MEA	Bx 4444	TEA-9091	1213 Terrell Dr., High Point, NC
Ally, John Andrew, III	UN	SE	2402 Hillsboro St.		Box 295, Haw River, NC
Ally, John Edward	SO	ME	3474 Hillsboro St.	VAB-9181	15 Melrose Ave., Asheville, NC
Ally, Matthew Brown	SR	ME	804 Greenwich St.	833-7498	804 Greenwich St., Raleigh, NC
Ally, Mike Harlee	SR	TXT	111 Lane 82, Fu Yuen St., Taiwan		131 E. Stewart Ave., Mooreville, NC
Ally, Parris Clayton	PR	AGI	Watauga Bx 3048	TEA-9232	Rt. 2, Hurdles Mill, NC
Ally, Paul Fronberger	MR	AMA	722 Chamberlain St.		c/o Helen's Rest., Bessemer City, NC
Ally, Robert Edward	SR	TXT			Rt. 2 Box 952, Elizabeth City, NC
Ally, Howard Herman	SR	TXT	222 Hillcrest Bx 5545	TEA-7708	706 Laurel Lane, Gastonia, NC
Ally, Edward Lee	SR	ME	3124 B. Bx 15330		509 E. 9th Ave., Gastonia, NC
Ally, Walter Bailey	SR	TXT	235 Tucker	TEA-9387	225 W. Glendale, Mt. Holly, NC
Ally, William Earl	SR	ARC	616 Grove Ave.	833-4002	Main St., Roxboro, NC
Ally, William Joe	SR	AGE			Ash, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Long, William Thomas, Jr.	JR	ME	502 Brooks Ave.	834-4881	502 Brooks Ave., Raleigh, NC
Lonon, Carl Brian	JR	MED	Bx 15092		Rt. 1 Box 396-A, Marion, NC
Lonon, William Delmar, Jr.	FR	GEE	204 Tucker Bx 4677	TE2-9387	403 W. Court St., Marien, NC
Looper, Robert Lee	SO	CHE	101 Oberlin Rd.	TE2-0352	112 Tranquil Ave., Charlotte, NC
Loew, Wesley Emil	DR	WT	20 Bashford Rd.		20 Bashford Rd., Raleigh, NC
Loep, Daniel Franklin	SR	IE	307 Brooks Ave.	833-6252	306 Westover Dr., Lexington, NC
Lopes-Rosa, Julie H.	GR	PP	M-22 McKimmon Vill.	832-8160	Bx 263, Hatilla, Puerto Rico
Lora, David Chesley, III	FR	PPT			Fiedmont Dr., Downingtown, PA
Lorenz, Charles Richard	FR	EE	125 Hawthorne Rd.	832-1183	1209 Park Ave. B., Goldsboro, NC
Loters, Jaime	DR	SSC	2614 Cartier Dr.	828-6646	Medellin, Antioquia, Colombia
Lette, William Thomas	FR	TC	119 Syme Bx 3519	TE2-9288	2263 Walnut Ave., Buena Vista, VA
Leve, Ira Wayne	JR	CHE	Bx 5566		1018 West "C" St., Kannapolis, NC
Leve, Lexie Lewis	JR	TC	633 Cannon St.		Rt. 1, Willow Springs, NC
Levelace, Samuel Darden, Jr.	JR	NS	1343 Baes St.	833-4909	115 N. Cone St., Wilson, NC
Levette, Blake Dyane	FR	ASV	121 S. Boylan		Rt. 1, Millers Creek, NC
Levette, Jerry Leon	SO	EE			2207 Wiggins St., Burlington, NC
Levill, Robert Jones, III	FR	MNC	308 Bagwell		723 N. Main St., Mt. Airy, NC
Leving, Thomas Franklin	SO	POM	209 Bagwell Bx 3341	TE2-9131	Rt. 1, Cameron, NC
Levern, Larry Brown	SO	IA	809 Runnymede Rd.	TE4-4993	809 Runnymede Rd., Raleigh, NC
Lewder, Hoyt Glenn		TXT	401D Bragav Bx 15156	TE4-9757	Rt. 1, Stanfield, NC
Lewder, James Terry	SO	CEC	208 Berry Bx 4315		Collinwood Dr., Burlington, NC
Lewry, Victor Leamon	FR	CHE	317 Watauga Bx 3053	TE2-9123	613 North Elm St., Marshville, NC
Lawman, Harvey Dennis	SO	ME	338 Owen Bx 4552	TE4-9300	Box 283, Connelly Springs, NC
Lawman, Johnny Truitt	FR	EE	51 Tucker Bx 4801		West End Dr., Valdesee, NC
Lay, Reginald Freeman	SO	ME	Watauga Bx 3035		1605 Granville St., Burlington, NC
Lay, William Henry	FR	EE	322 Becton Bx 3790	TE2-9372	219 E. Main St., Washington, NC
Lezada, Pedro Benjamin	SO	MEA	312 Welch		2427 Caracas, Lima, PERU
Lucas, John Wesley	JR	IATO	1109 1/2 Cowper Dr.	TE2-0155	1109 1/2 Cowper Dr., Raleigh, NC
Lucas, Leon Thomas	JR	ATZ	1718 Hillsboro St.	828-4464	Rt. 2 Box 70, Halifax, NC
Lucas, Sherwood Paul	SR	CEC	125 Becton Bx 3725	TE4-7791	Rt. 1, Dunn, NC
Lucas, William Ashley	SR	PT	Box 5566	TE2-9012	224 Fountainhead Ln., Fayetteville, NC
Lucci, Anthony Guy	MR	AMA	2701 W. Avent Ferry	833-9111	153 Fourth St., Ehrenfeld, PA
Ludlum, Beeby Kaye	JR	EE	301 Watauga	TE2-9132	305 N. Carolina Ave., Wilmington, NC
Ludwick, George Edwin	SO	TXT	304 Turlington Bx 4269	TE2-9192	Rt. 1 Box 799, Salisbury, NC
Lugo, Hector Manuel	GR	SOI			Justiniano 82, Mayaguez, Puerto Rico
Lumpkin, Davis Bagley	JR	EE	Bx 5566	832-9102	370 Avon Dr., Pittsburgh, PA
Lumpkin, Willie Lee, Jr.	FR	MEA	239 Alexander		936 N. Main St., Louisburg, NC
Lumsden, Robert Douglas	MR	PP	2610 Kilgore Ave.	VA8-9611	2610 Kilgore Ave., Raleigh, NC
Lunsford, Robert Wilkie, Jr.	SO	ME	314 Turlington Bx 4276		Rt. 9 Box 124C, Winston-Salem, NC
Lupton, Johnny Richard	JR	ME	Box 213, Cary		Lowland, NC
Lurey, Edward Bryan	SR	IE	304C Bragav		4 Sunset Summit, Asheville, NC
Lushene, Joseph Michael	SR	OE	F-203 McKimmon Vill.	834-2856	P-203 McKimmon Vill., Raleigh, NC
Lustig, Frank Eugene	DR	CHE	Bx 15008	TE2-9129	Tanglewood Park, Clemmons, NC
Luther, Harry Reger		MEA	63 Tucker Bx 4813		42 Greenwood Rd., Asheville, NC
Luther, Jerry Dale	FR	ME	364, Tucker Bx 4791	TE2-9323	28 Thorn St., China Grove, NC
Lutz, Benny Ray	SR	RPA	S-3-C Cameron Ct. Apt.	VA8-6134	Market, Charleston, IND
Lutz, Frederick King	SO	MEA	Bx 3029	TE2-9123	Box 933, Southern Pines, NC
Lyerly, Glenn Robert, Jr.	FR	TXT	140 Tucker Bx 4650	TE2-9367	Rt. 4 Box 508, Salisbury, NC
Lyerly, James Milton	FR	IE			109 Pine St., Wadesboro, NC
Lyford, Sidney John, Jr.	GR	AS	123 1/2 Brooks Ave.		RFD 1, Exeter, NEW HAMPSHIRE
Lynch, James Maurice	SR	CE	110A Bragav		529 Summitt Dr., Sanford NC
Lynch, Robert Edward, Jr.	SR	IE	117C Bragav Bx 15031	TE2-9129	Rt. 3, La Grange, NC
Lynch, Roy Graham	FR	CE	706 Powell Dr.	TE2-1472	Box 74, Chimney Rock, NC
Lynch, Walter Kenneth	GR	TXT	3412 Wade Ave.	834-3871	3412 Wade Ave., Raleigh, NC
Lynn, Iowa Hugh, III	FR	CHE	3908 Arrow Dr.	TE3-2745	3908 Arrow Dr., Raleigh, NC
Lynn, Harvia Douglas	JR	IATO	3919 Jackson St.	TE2-5450	Farmville, VA
Lynn, William Craven	JR	TC	1405 Brooks Ave.	TE4-3293	1405 Brooks Ave., Raleigh, NC
Lyon, Wiley Logan	FR	ABC	301 Syme Bx 3565		Box 41, North Side, NC
Lytle, James Charles	GR	NZ	1219 Carlton Ave.	VA8-7969	1219 Carlton Ave., Raleigh, NC
Lytten, Victor Hugh	MR	ANS	4210 Reavis Rd.	833-4807	Longisland, NC
McAdams, Charles Kennett, Jr.	FR	EE	221 Syme Bx 3553	832-9150	5110 Ramsey St., Fayetteville, NC
McAdoo, Garland Henry	SR	NE	NCSC YMCA	TE2-9339	Rt. 10 Box 50, Greensboro, NC
McAdoo, Halstead Wheeler	JR	IATO	305 Welch	TE2-9119	Rt. 2 Box 474, Greensboro, NC
McAllister, Howard Wesley, Jr.	SO	IATO	710 W. Jones St.		416 N. Lancaster, Aurora, ILL
McArthur, Daniel Lawrence, Jr.	JR	PD	205 Gold Bx 3215		Rt. 2 Box 139, Red Springs, NC
McArthur, Richard Graham	FR	CE	112 Tucker Bx 4624	TE2-9367	1368 Pamalee Dr., Fayetteville, NC
MacArthur, Robert Douglas	SO	TXT	1201 Kent Rd.	833-2547	905 E. Main St., Shelby, NC
McArthur, Roy Marshall	FR	TXT	116 Tucker Bx 4627	TE2-9367	420 Second St., Laurinburg, NC
McAuley, John Franklin	JR	TXT	47 Owen Bx 4581	TE2-9142	2539 Cranbrook Lane, Charlotte, NC
McAuley, Wanzie Albright	FR	EE	213 Watauga Bx 3031	TE2-9132	404, Dupree St., Durham, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
McLane, George Clyde, Jr.	SR	AB	517 Powell Dr.	828-7741	Box 186, Hillsboro, NC
McLary, Barbara Joseph	SO	AB	381 Tucker		Rt. 1, Whitsett, NC
McLary, Robert Douglas	HR	CH	1107 Parker St.	TE2-3473	Box 412, Forest City, NC
McLender, Anthony Wayne	FR	CH	339 Owen Ex 4493	832-9252	Rt. 6 Box 129, Mt. Airy, NC
McLennan, Keith George	SO	CE	211 Hawthorne Rd.	828-9143	631 Miller Ave., Grove City, PA
McLennan, Larry Ayle	SR	CH	Box 4491	TE2-9297	131 Durham Ave., Salisbury, NC
McLennan, John Carter	JA	ES	108 Fourth	TE2-9159	814 Hillside Ave., Charlotte, NC
McClaren, Yates Miller	SO	CH	340 Beaton		Box 202, Harrisburg, NC
McClary, Floyd Shaw	SR	ES	1309 Beaver Dam Rd.		Brevard, NC
McClary, Joe Dean	SO	TAT	2612 Clark Ave.		618 Branson St., Fayetteville, NC
McCall, Thomas Edwin, Jr.	MR	TAT	5-25 McKimmon Vill.	VAB-8696	114 Disoway St., Black Mtn., NC
McCall, Wayne Douglas	FR	CE	210 Beaton Bx 3744		2104 Sunset Ave., Durham, NC
McCallum, David Bookhardt	FR	ABC	335 Tucker Bx 4765		Ellerose, SC
McCall, Tony Delan	FR	ES	Box 4450	TE2-9115	Rt. 2, Elon College, NC
McCall, Roy Earl	SO	CE	Box 19091		Rt. 2 Box 186A, Elkin, NC
McCarson, Larry Jay	JR	MEA	1216 Franklin Rd.	TE3-3510	1216 Franklin Rd., Raleigh, NC
McCart, Reid Alexander	SR	TAT	2612 Clark Ave.	TE2-9484	117 N. Myrtle School Rd., Gastonia, NC
McCarthy, Adair Z.	SR	AB	4 Syme Bx 3600	TE2-9421	Rt. 2 Box 166, Lexington, SC
McCarthy, Thomas Edward	SO	TAT	Box 3207	TE2-9263	Box 303, Old Fort, NC
McClain, John David	FR	MEA	48 Owen		Box 214, Enka, NC
McClam, Ronald Sylvester	SR	TAT	306 Watauga Bx 3042	TE2-9132	28 Gurley St., Concord, NC
McClenny, William Arthur	SR	FR	3118 Bragaw		Box 147, Lucama, NC
McClure, George William	JR	SOI	2716 Van Dyke	TE2-5255	819 Bell Ave., N. Braddock, PA
McClure, Richard Earl	FR	FOR	115 Watauga Bx 3015	TE2-9447	Rt. 2, Madison, NC
McClure, Richard Eugene	SR	MA	107D Bragaw		3345 Hampton Rd., Raleigh, NC
McClure, Alfred Earl	SO	ABC	5719 Waycross St.	TE2-5176	5719 Waycross St., Raleigh, NC
McConnell, Peggy Harper	SR	CE	4514 Waverlybalt Ave.	TE4-8656	205 Edgemont Dr., Allenhurst, NJ
McConnell, Thomas Harper	JR	GS	Box 5667	TE4-9378	Box 5667, Raleigh, NC
McConnell, William Randall	FR	TXT	Watauga Bx 3003	TE2-9447	Rt. 1 Box 130, Mt. Holly, NC
McCorkle, Richard Anthony	MR	FR	2702 Hillsboro	TE2-9445	524 N. Broad St., Gastonia, NC
McCrack, James Mack	SR	ABD	1118 Bragaw Bx 15022	TE2-9129	Rt. 6, Sanford, NC
McCrack, Warren Bluff	FR	FR	111 Old Stage Rd.		Box 325, Saint Pauls, NC
McCrack, Owen Lawrence, III	FR	AB	3447 Wesley Rd.	TE3-8296	Oriental, NC
McCrack, William Edward	FR	AK	2609 Clark Ave.	TE4-1384	216 Riverside Dr., Washington, NC
McCoy, John Hunter	SO	AMA	212 Park Ave.		1511 Mimosa, Charlotte, NC
McCoy, Lawrence Willard	FR	CH	61 Tucker Bx 4811	TE2-9237	Rt. 4 Box 566, Charlotte, NC
McCoy, Robert Edwin	FR	ES	47 Owen Bx 4581		2014 Hamilton Rd., Greensboro, NC
McCoy, Thomas Anthony	FR	ME	221 Owen Bx 4476	TE2-9410	206 Second St., East Marion, NC
McCracken, Jerry Franklin	SR	CE	P-218 McKimmon Vill.	828-5676	803 E. King St., Boone, NC
McCracken, John Marshall	FR	ME	58 Tucker Bx 4808	832-9186	Rt. 4, Waynesville, NC
McClary, Ernest Stuart	FR	ES	212 Owen Bx 4468	TE2-9410	Box 147, Lucama, NC
McClary, James Edward	SR	FOR	224 Tucker Bx 4695	TE7-2496	Rt. 1 Box 569, Roanoke Rapids, NC
McClary, William Floyd	FR	MA	Box 4470		214 11th St., Spencer, NC
McClary, David Lynn	FR	AB	376 Wilmet Dr.	832-6278	1016 McKinley Ave., Auburn, ALA
McClary, George Crawford	FR	TXT	311 Beaton	TE2-9372	105 Richmond Ave., Swannanoa, NC
McClary, Garland Dan	FR	AB	3414 Hillsboro St.	VAB-9447	Box 2116 A W. Front St., Burlington, NC
McClary, Michael David	FR	IA	12 Maiden Lane	TE2-9447	Rt. 1, Faison, NC
McClary, John William	FR	MA	2208 Anderson Dr.		7 Tyler Dr., Cherry Pt., NC
McClary, David Kenneth	FR	ME	209 Beaton Bx 3743	TE2-9334	2208 Sherwood St., Greensboro, NC
			2820 Everett Ave.	TE4-6503	2820 Everett Ave., Raleigh, NC
McCutcheon, William Frank	FR	MA	Box 4471	832-9129	58 Oxford Ave., Lancaster, NY
McClade, Frank Puckett	FR	AGI	117 Owen Bx 4412		Box 147, Lucama, NC
McClary, John Raymond	FR	TXT	981 Harp Ter.		601 Carolina Ave., Gastonia, NC
McClary, Benjamin Thomas	FR	MA	Box 4470		Star Rt., Pickens, SC
McClary, Robert Edwin	FR	AB	Tucker		Rt. 1 Box 78, Cleveland, NC
McClary, Kenneth Grimes	FR	CH	212 Tucker Bx 4684	TE2-9387	927 Country Club Dr., Lexington, NC
McClary, Roger Wyatt	FR	EST			603 Pollock St., Kinston, NC
McClary, Allen Woodford	FR	AB	Box 15067	TE2-9447	Rt. 3 Box 98, Concord, NC
McClary, Arthur Richard, Jr.	FR	MA	406A Bragaw		Box 743, China Grove, NC
McClary, Lee Roy, Jr.	FR	CH	Box 4470	828-3250	2904 O'Berry St., Raleigh, NC
McDonald, Daniel Edwin	FR	MA	58 Owen Bx 4592		106 S. Washington Ave., Reidsville, NC
McDonald, George Bruce	FR	MA	348 Tucker Bx 4775	TE2-9323	Box 147, Lucama, NC
McDonald, John David	FR	CE	4205 Fayetteville Rd.	828-6813	Rt. 2, Bunnlevel, NC
McDonald, Robert Earl	FR	HRT			Cameron, NC
McDonald, Robert Kenneth	FR	MA	Box 5665	TE2-9148	207 Stone St., Thomasville, NC
McDonald, Willard Michael	FR	CH	129 Bertie Dr.	TE4-2240	129 Bertie Dr., Raleigh, NC
McDonald, Robert Kenneth	FR	CE	4800 Western Blvd.	TE3-3994	807 Penn. Ave., Spindale, NC
McDonald, Albert Gillette, Jr.	FR	CE	230 Bagwell	TE2-9131	Box 386, Clarkton, NC
McDonald, William Edward	FR	CE			311 E. Trinity Ave., Durham, NC
McDuffie, Walter Cross	FR	AB	2510 Clark Ave.	828-3942	Rt. 1 Box 94, Clarkton, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
McElroy, James Edward	SR	POM	Bx 5276 YMCA	TE2-7184	2512 Bridges St., Morehead City, NC
McIntire, Jackie Edward	SO	ARC	301B Bragaw Bx 15101	TE4-9179	307 S. Cherry St., Wilkesboro, NC
McIntire, Kenneth Marvin	JR	EE	130 Cox Ave.	828-9995	1106 Price St., Forest City, NC
McIntire, Charles Milton	FR	CHE	239 Owen Bx 4493	832-9252	916 Holland St., Winston-Salem, NC
McFarland, Clifton Benedict	SR	MEA	B-21 McKimmon Vill.	833-1189	B-21 McKimmon Vill., MCSC, Raleigh, NC
McGana, Gene Monroe	SR	ATC	4202 Western Blvd.		RFD 1, Waynesville, NC
McGee, Thad Morris	JR	TC	1911 Hawkins St.		214 E. 13th St., Washington, NC
McGee, Curtis Dillard	SO	AGI	Syme		Rt. 6, Reidsville, NC
McGee, Hal S.	SO	CE	206 Berry Bx 4313	TE2-9363	Swan Quarter, NC
McGee, Hubert Wendell	SR	CHE	Bx 3238	TE2-9119	Rt. 2 Box 256, Kernersville, NC
McGee, James Alton	FR	EE	Bx 3815	832-9261	4625 Angier Ave., Durham, NC
McGee, John Clarence	DR	CHE	906 Canterbury Rd.	VA8-9850	906 Canterbury Rd., Raleigh, NC
McGee, John William	DR	CHE	1-22 McKimmon Vill.	828-8965	Rt. 3, Timmonsville, SC
McGee, Samuel Boston	FR	ME	122 Tucker	TE2-9367	Rt. 3, Mt. Airy, NC
McGee, William Lucian	FR	DN	Watauga Bx 3040	TE2-9132	101 Windsor Rd., Asheville, NC
McGee, Robert Frank	FR	CEC	Owen Bx 4444		Rt. 4 Box 371, Morganton, NC
McGill, Ralph Norman	SO	ME	318B Bragaw	TE4-9253	1408 Morningside Dr., Charlotte, NC
McGinnis, Donald Reid	SO	MSD	1104 Harp St.	828-5624	1209 Carney Ct., Gastonia, NC
McGinnis, Jake Allen	SO	TXT	100 Gardner St.		210 S. Main St., Stanley, NC
McGinty, Bill P.	JR	TXT	3414 Hillsboro St.	VA8-9181	2200 Pembroke Ave., Charlotte, NC
McGirt, Albert Franklin, Jr.	JR	NE	333 Turlington Bx 4294	TE2-9192	Rt. 2, Rowland, NC
McGlamery, Neal V., Jr.	SR	AGI	210 Wilmot Dr.	TE4-9604	210 Wilmot Dr., Raleigh, NC
McGlenon, Wayland Duke	SR	MSD	2608 Broadwell Dr.	832-8809	407 Park Ave., Ayden, NC
McGough, Ronald Baxter	MR	EE	615B Glenbrook Dr.	834-2107	615B Glenbrook Dr., Raleigh, NC
McGraw, James Robert	SO	POM	119C Bragaw Bx 15035	TE2-9129	4759 Cherry St., Winston-Salem, NC
McGuffey, Jon Phillip	FR	MSD	162 Owen Bx 4453		2318 Woodview Rd., Kinston, NC
McGuinn, John Anthony	JR	IE	1515 Frank St.	832-5443	Box 274, Tryon, NC
McGwier, James Phillip	SR	IATO	2605 Broadwell Dr.	TE4-4621	4109 Walker Ave., Greensboro, NC
McInnis, Angus Campbell	SO	ASV	125 Owen Bx 4420	832-9115	Box 23, Wagram, NC
McIntosh, Ervin Winfield	SR	ASW	P-216 McKimmon Vill.		215 Tryon Palace Dr., New Bern, NC
McIntosh, Preston Douglas	FR	EE	152 Owen Bx 4448	TE2-9115	Box 183, Rowland, NC
McIntosh, William Alexander	MR				708 Brookgreen Ter., Graham, NC
McIntyre, William Hetherington	JR	IA	3030 Leonard St.	VA8-6148	334 S. Franklin St., Rocky Mount, NC
McKee, James Alexander	FR	ENG	251 Tucker Bx 4718	TE2-9387	1104 W. Braddock Rd., Alexandria, VA
McKeithan, Robert Kenneth, Jr.	FR		Watauga Bx 3014	TE2-9447	Bolivia, NC
McKellar, Scott McMurray	SO	POM	213 Turlington	TE2-9297	Rowland, NC
McKelvey, Gary Malcon	SR	GS	801 W. Morgan St.	833-9537	7 E. Foxchase Rd., Asheville, NC
McKelvey, Kenneth Newwood	SO	CHE	234 Lynnwood Lane	TE2-8251	234 Lynnwood Lane, Raleigh, NC
McKenzie, John Leon	SO	CE	156 Owen		Box 223, Pinehurst, NC
McKenzie, Robert S.	FR	AMA	216 Owen Bx 4471	TE2-9410	1406 Evergreen Ave., Goldsboro, NC
McKenzie, Wayland Nash	JR	ASZ	302C Bragaw Bx 15312	TE4-4545	435 N. 10th St., Albemarle, NC
McKinney, Frederick Leon	FR	CE	351 Tucker Bx 4778	TE4-9739	1116 Iredell St., Durham, NC
McKinney, Raymond D.	GR	AGC	623 Stacy St.	832-1289	1843 Anderson, Manhattan, KAN
McKinney, Salve Dallas	SO	MIA	223 Hillcrest Rd.		Rt. 1, Spruce Pine, NC
McKnight, Howard Franklin	SO	CE	133 Bagwell	TE4-9219	211 Hassell, Williamston, NC
McKown, Paul Darrell, Jr.	SO	ASZ	150 Tucker Bx 4657	TE2-9388	Rt. 1 Box 44A, Bayside, VA
McLamb, Harold Dixon	UN	A	Rt. 7	VA8-9839	Rt. 7, Raleigh, NC
McLaren, Ronald Edward	SO	ARC	Bx 3530		312 Moore St., Beaufort, NC
McLaughlin, John James	FR	POM	326 Tucker	TE2-9323	42 St. Nicholas Rd., Darien, CONN
McLaughlin, Martha Hix	JR	RS	103 Enterprise St.	TE2-7652	Rt. 1, Moravian Falls, NC
McLaughlin, Michael Allan	FR	ME	360 Owen Bx 4571	834-9836	725 Bromley Rd., Charlotte, NC
McLaughlin, Richard Dennis	FR	CHE	209 Tucker Bx 4682	TE2-9387	1509 Berkshire Rd., Fayetteville, NC
McLaughlin, Robert Daniel	JR	ATC	Bx 15148		Rt. 3, Mooresville, NC
McLaurin, Hector Earl	JR	ASV	109 Bagwell		Rt. 1 Box 419, Fayetteville, NC
McLawnhorn, Thomas Haywood	JR	AMA	126D Bragaw Bx 15258		Box 23, Winterville, NC
McLawnhorn, Richard Herman, III	JR	ASE	501 Polk St.		Rt. 1, Winterville, NC
McLawnhorn, Wesley Carroll	FR	AGI	248 Owen Bx 4499	832-9252	406 W. 3rd St., Ayden, NC
McLean, Duncan Floyd	FR	MEA	808 Brighton Rd.	TE2-2458	808 Brighton Rd., Raleigh, NC
McLean, Geoffrey D.	SO	ARC		VA8-9181	415 Piedmont Ave., Rocky Mount, NC
McLeod, John Edgar	SR	IA	B-12 McKimmon Vill.	VA8-7167	623 Kildee Dr., Lexington, NC
McLeod, Michael Stanley	JR	EST	324D Bragaw		802 Arbordale Ave., High Point, NC
McLeod, William Robert	FR	AG	320 Tucker Bx 4751	TE4-9739	Rt. 2, Carthage, NC
McMasters, James Wesley	SO	ASE	Bx 4203	TE4-9289	Rt. 1 Box 94, Staley, NC
McMillan, David Walter	FR	EE	130 Owen Bx 4425		Box 46, West Jefferson, NC
McMillan, Donald Alexander	SR	MSD	1603 Franklin Rd.		RFD, Pembroke, NC
McMillan, Philip Gale	JR	PY	302D Bragaw Bx 15313	TE4-4545	Box 46, West Jefferson, NC
McMillan, Richard Evander	FR	AGI			Rt. 2, Raeford, NC
McMillan, Ronald Bethune	FR	GEE	207 Becton Bx 3741	TE2-9334	1108 Tarboro St., Rocky Mount, NC
McMurray, Allen Lynn					5043B Val Verde Lane, Houston, TEXAS
McMurray, Charles Leigh	PRO	ARC	1509 1/2 Hillsboro	834-6171	Spruce Pine, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	ADDRESS
McMurray, Bernianna Virginia	SR	ASU	1944 Park Dr.	TEA-9900	101 Center St., Goldsboro, NC
McNeill, James Augustine, Jr.	SR	NE	121 1/2 Elm Ave.	TEA-9901	102 W. Nash, Southport, NC
McNeill, Larry Roger	SR	TAT	121 1/2 Elm Ave.	TEA-9902	308 Sharon Ave., Asheboro, NC
McNeill, Larry Roger	SR	SE	121 1/2 Elm Ave.	TEA-9903	214 E. Greene St., Rockingham, NC
McNeill, Lewis Edward	SR	ASU	121 1/2 Elm Ave.	834-9279	Rt. 1, Broadway, NC
McNeill, Walter Wilson	SR	ASU	2719 Clark Ave.		1235 Greenwood Cliff, Charlotte, NC
McNeill, William Bruce	SR	ASU	1720 Hillsboro St.	VA8-9200	414 S. Main St., Fayetteville, NC
McNeill, Wm. Jr.	SR	SE	421 1/2 Elm Ave.	832-9150	216 W. Tenth St., Gastonia, NC
McNeill, Edward Vardre	SR	TAT	223 Alexander	TEA-9746	216 W. Tenth St., Gastonia, NC
McPherson, George William	SR	SE	5 Daley St.		216 W. Tenth St., Gastonia, NC
McPherson, Hugh Odell	SR	SE	Welch Bx 3251	TEA-9711	Rt. 2 Roxboro Rd., Durham, NC
McPherson, James Maxwell	SR	ASU			
McPherson, James Maxwell	SR	ME	211 Welch Bx 3259	TEA-9712	716 Holly St., Asheboro, NC
McPherson, John Walter, III	SR	AFY	2824 1/2 Bedford Ave.	828-7533	Eastwood St., Swannanoa, NC
McPherson, David Herbert	SR	ME	Tucker Bx 4120		
McSwain, Odus Fay, Jr.	SR	ME	306 Welch	TEA-9719	Rt. 3, Shelby, NC
McVicker, Gerald Reuben	SR	ASU	18 Enderbyplace St.	TEA-5449	
McWhorter, Billy Glenn	SR	SE	1914 Hillsboro St.		1914 Hillsboro St., Annapolis, NC
McWhorter, Jimmy Wayne	SR	ASU	Bx 3241	TEA-9719	Rt. 2, Kerneraville, NC
McWhorter, Harry Waddell	SR	ASU	13174 Dale St.		Norwood, NC
Mac, Ronald Lawrence	SR	ARC	WEL Trailer Haven	HO7-9859	304 Crafton St., Winston-Salem, NC
Mac, Edward James	SR	SE	1414 Bragaw Bx 15047	TEA-7179	4636 Leaf Hills Dr., Wilmington, NC
Mac, William Ray	SR	SE	222C Bragaw Bx 15300		Rt. 2, Catawba, NC
Mac, John Garrett	SR	ASZ	1414 Bragaw Bx 15010		910 W. Marion St., Shelby, NC
Mac, Michael Rhett	SR	IE	2514 Clark Ave.	TEA-7179	414 S. Main St., Fayetteville, NC
Mac, John Alexandria	SR	CHS	312 Shepherd St.	TE3-5342	312 Shepherd St., Raleigh, NC
Mac, Cesar Palting	SR	HP	424 S. Main St.	TE3-6929	College, Laguna, Philippines
Mac, Lilia S.P.	SR	CH	424 S. Main St.	TE3-6929	Pullian, Bulacan, Philippines
Mac, John Willard, Jr.	SR	CH	1788 Bragaw Bx 15291		519 Sealybank Rd., Charlotte, NC
Mac, James Garland, Jr.	SR	ME	2815 Mayview Rd.	TE2-3357	2815 Mayview Rd., Raleigh, NC
Mac, Claude Douglas, Jr.	SR	CHS		TEA-9378	1010 W. End Ave., Statesville, NC
Mac, Donald Gene	SR	AS	202 Tucker		Rt. 1, Hartford, NC
Mac, Basil Granville	SR	FOR	223 Hillcrest Rd.	TE2-7294	Yale, VA
Mac, Joseph Patrick	SR	ME	241 Tucker		241 Tucker, Winston, NC
Mac, William Francis, Jr.	SR	ME			241 Tucker, Winston, NC
Mac, Harry Gus	SR	SE	3019 1/2 Hillsboro St.	VA8-8990	601 Dartmouth Dr., Gastonia, NC
Mac, William Wade	SR	ME	202C Bragaw Bx 15059	TE2-9185	704 N. Church St., Grifton, NC
Mac, Edward James	SR	ME	Bx 5758	TEA-6679	3 Movahik Ben Amav, Giza, Egypt
Mac, Edmund Allen Ali	SR	JMA	Bx 5824		El Geist St., El fekrria, Minia, Egypt
Mac, Donald Lawrence	SR	ME	Bx 5825		Rt. 3 Box 343, Greensboro, NC
Mac, William Eugene	SR	ANS	217 1/2 Jones-Franklin	TE2-8752	Rt. 2, Canton, NC
Mac, Clifton Eugene	SR	LA	362 Tucker		3018 West Concord, Orlando, FLA
Mac, Martin Allen	SR	LA	2204 Garden Pl.		1615 Jefferson Ave., Miami B., FLA
Mac, Eugene Hartwell	SR	EST	205 Becton Bx 3739		Rt. 1, Charles City, VA
Mac, Hassan Ibrahim	SR	EST			Villa #1 Smouha City, Alexandria, Egypt, UAR
Mac, Ronald Lee	SR	SE	Rt. 1, Cary		Kenova, W. VA.
Mac, Herbert Rooney, Jr.	SR	SE	124 N. Boylan Ave.		124 N. Boylan Ave., Raleigh, NC
Mac, Edward James	SR	CH	229 Turlington	TE2-9297	1714 W. Nash, Wilson, NC
Mac, Edward James	SR	CH	50 Tucker Bx 4800	TE2-9237	Box 226, Roanoke Rapids, NC
Mac, Edward James	SR	LA	218 Turlington		Moore Lake, Dever, DEL
Mac, Philip Morris	SR	CHS	223C Bragaw		Rt. 2 Box 236, New London, NC
Mac, William Don	SR	CHS	Bx 4120	TE2-9263	851 Woodstock Rd., Norfolk, VA
Mac, Allan Armstrong	SR	CHS	2829 O'Berry St.	TEA-9185	2829 O'Berry St., Raleigh, NC
Mac, Charles Douglass, Jr.	SR	CHS	414 S. Main	832-3863	Lahaska, PA
Mac, Donald Fisher	SR	CHS	Bx 15073		Rt. 2 Box 236, New London, NC
Mac, William Edward	SR	CHS			1115 Southern Ave., Fayetteville, NC
Mac, John Edward	SR	CHS	Box 443, Cary	467-2593	Rt. 2, Waxhaw, NC
Mac, Harry Lawrence	SR	CHS	614 Peartree Rd.	TE2-8035	614 Peartree Rd., Raleigh, NC
Mac, Edward James	SR	CHS	1211 Cross Link Rd.	VA8-3340	1211 Cross Link Rd., Raleigh, NC
Mac, L. Chanchai	SR	A	203 Alumni Bldg.	TE2-9322	11 Vijienjom, Songkla, Thailand
Mac, Ernest Jackson	SR	IATO	1412 Canterbury Rd.	TEA-3932	1412 Canterbury Rd., Raleigh, NC
Mac, George Madison	SR	ME	1501 Benesh St.	TEA-0271	801 Forest Hills Dr., Wilmington, NC
Mac, James Tift	SR	ASZ	127 W. Park Dr.	TEA-9719	3049 Granville Dr., Raleigh, NC
Mac, Jimmie William	SR	ME	127 W. Park Dr.	TEA-9719	3049 Granville Dr., Raleigh, NC
Mac, Ronald Barry	SR	ME	127 W. Park Dr.	TEA-7615	1524 E. Farries, High Point, NC
Mac, William Henry	SR	CHS	127 W. Park Dr.	TEA-9159	Box 181 Rt. 2, Newport, NC
Mac, Truxton K.	SR	CHS			1506 Spencer Ave., New Bern, NC
Mac, William Collicott	SR	CHS	Bx 8754		406 Everett Pl., Durham, NC
Mac, William Gene	SR	CHS	265 Tucker Bx 4732	TE2-9387	40 Jackson St., Concord, NC
Mac, Henry Lee, Jr.	SR	CHS	2718 Clark Ave.		Middlesex, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Manning, Jenn Austin, Jr.	SR	TXT	1306 Rand Dr.	TE3-6931	1306 Rand Dr., Raleigh, NC
Manning, Richard Cole	DR	AGC	A-21 McKimmon Vill.		2 Finlay Rd., Warravoe, AUST.
Manning, Richard Oliver	JR	CHE	204 Berry Ex 4311	TE2-9363	508 W. Bay St., Dunn, NC
Manning, Thomas Register	SR	TXT	617 N. Blount St.	TE2-4592	310 Elm St., Weldon, NC
Mansfield, Shelby Harris	SO	RPA			Garden, NC
Mansour, Thomas Loutfy	FR	TXT	138 Alexander Ex 4130	TE2-9257	8 M. Farhaly St., Alexandria, EGYPT
Manuel, John Eastham	SO	CEC	3000 Lewis Farm Rd.	832-4744	300 Lewis Farm Rd., Raleigh, NC
Marcos, Joseph	DR	ME	Bx 5234		139 Wood St., Providence, RI
Marchetti, Peter Louis, Jr.	SR	MED	125 Hawthorne Rd.	TE2-9567	125 Hawthorne Rd., Raleigh, NC
Marchman, James Franklin	JR	MEA	4060 Bragaw Ex 15374		303 Morgan St., Forest City, NC
Marcum, John Mills	SR	PY	5701 Hillsboro St.	VA8-5905	235 S. Ashe St., Southern Pines, NC
Martin, Jesse Gildardo	MR	SSC	310 Chamberlain St.		Cark 9th 8-33, Chinchina, Colombia
Marines, Pete Nick	GR	EE	116 Bagwell		20 W. Croft St., Greenville, SC
Markantonatos, Antony	GR	AOE	P-11 McKimmon Vill.		F-11 McKimmon Vill., Raleigh, NC
Markham, Harwick Henry, Jr.	SR	CE	208 Ashe Ave.	TE3-8550	208 Ashe Ave., Raleigh, NC
Martens, James Lottick	SR	IA	1101 Canterbury Rd.	TE2-9586	1101 Canterbury Rd., Raleigh, NC
Marley, Larry Ray	SO	AGI	17 Glenwood Ave.		Rt. 1, Eagle Springs, NC
Marlin, William Rockwell	JR	SOI	1718 Hillsboro St.	VA8-4464	Rt. 6 Box 26, Statesville, NC
Marlowe, Robert Benjamin	SO	ATO	220 Cox Ave.		Rt. 2, Hendersonville, NC
Marr, Wade Eugene	SO	GS	322 Owen		844 Southern Ave., Fayetteville, NC
Marrow, John Wesley	JR	EE	425D Bragaw Ex 15205		Golf Rd., Plymouth, NC
Martin, Bradley Allen	SO	TXT	216 Purches	VA8-3635	216 Purches St., Raleigh, NC
Martin, Donald Heath	JR	ME	401A Bragaw Ex 15153		3024 N. Center St., Hickory, NC
Martin, William Parker	FR	AHC	105 Tucker Bx 4619	TE2-9367	507S. Church St., Monroe, NC
Marshall, Carlton Donald	JR	ME	208 Ashe Ave.	TE3-8550	1107 Grace St., Wilmington, NC
Marshall, David Bacon	SO	AT	323C Bragaw Ex 15147	TE2-7708	1137 Maplecrest Cir., Gladwyne, PA
Marshall, Homer Junior	FR	EE	325 Owen Ex 4540	TE4-9300	135 Prospect Ave., Leaksville, NC
Marshall, John Thomas	SO	AHH			407 Forest Ave., High Point, NC
Marshall, Michael Gurney	PR	AHC	109 Ridgecrest, Cary	H07-1157	1015 E. Sprague St., Winston-Salem, NC
Marshall, Wayne Hugh	SO	TXT	Bx 4220	834-9279	Rt. 1 Box 884, Celfax, NC
Marshall, Wayne Wilson	SR	IA	407 W. Aycock St.	TE2-4274	407 W. Aycock St., Raleigh, NC
Marshall, William Ernest	SO	EE	219 Hawthorne St.	TE3-3093	219 Hawthorne St., Raleigh, NC
Marshburn, James Phillip	SR	ME	D-25 MSH	VA8-3522	726 Mill St., Rocky Mount, NC
Marshburn, William Mattox	SO	CEC	356 Owen Ex 4567		314 S. George St., Rocky Mount, NC
Marti, Jesse Antonio	SR	TXT	Bx 5683	TE2-9322	Anatole France 29, Mexico, MEX
Martin, Andrew Stephen	UN	GS	101 Watauga Ex 3001	TE2-9447	3038 Lewis Farm Rd., Raleigh, NC
Martin, Arthur Wade	JR	IE	502 E. Park, Cary	H07-9331	502 E. Park, Cary, NC
Martin, Cecil Earl	SO	ENG	235 Turlington Ex 4261	TE2-9297	5734 Hikory Grove Rd., Charlotte, NC
Martin, Chreston Furman	DR	APY	Bx 5372 Alumni Bldg.	TE2-9322	Rt. 1, Landrum, SC
Martin, Donald Crewell	DR	CHE	820 Carlisle St.	TE4-4438	820 Carlisle St., Raleigh, NC
Martin, Edward A.	FR	WHH	3020 Grant Ave.	TE2-8505	3020 Grant Ave., Raleigh, NC
Martin, Gene Harold	SR	ES	202 Ashe Ave.	TE3-0373	W. 3rd St., Robersonville, NC
Martin, James Avery	FR	ASE	Bx 4474	832-9252	Rt. 2 Box 95-A, Lenoir, NC
Martin, James Boyce	JR	ASH	100 Horne St.		1175 Berkley Ave., Florence, SC
Martin, James Hoyle	FR	IA	Becton Ex 3755	TE2-0175	Rt. 1 Box 48, Franklinville, NC
Martin, James Lee	SO	IE	4220 Bragaw		Frank St., Roxboro, NC
Martens, Johnny Stephen	SR	MED	Bx 15292		224 Realty St., Lenoir, NC
Martin, Joseph Asbury			319 Alexander		RFD Red Oak, NC
Martin, Larry Grant	SO		3021 Leonard St.		Lasker, NC
Martin, Leon	SO	CHE	107 Owen Ex 4404	TE2-9437	409 Jackson St., Kannapolis, NC
Martin, Logan LeWayne	FR	EE	363 Tucker Ex 4790	TE2-9323	Box 573, Robbins, NC
Martin, Lonnie Dale	JR	ASH	220 Tucker Ex 4751	TE2-9323	Rt. 1, Jonesville, NC
Martin, Louis Howard	JR	ME	228 Syme	832-9150	Rt. 2, Murphy, NC
Martin, Marvin Ray	JR	ME	Tucker Ex 4661	TE2-9388	526 S. Ellis St., Salisbury, NC
Martin, Philip Crawford	FR	EE	3212 Merriman Ave.		3212 Merriman Ave., Raleigh, NC
Martin, Raymond Leith, Jr.	FR	NE	139 Alexander Ex 4131		3910 Plymouth Rd., Durham, NC
Martin, Robert Lee, Jr.	SR	AMA	1503 Cherokee Dr.	TE2-5149	1503 Cherokee Dr., Raleigh, NC
Martin, Ronald Coleman	SO	IE	1214 College Pl.		902 Biggs St., Laurinburg, NC
Martin, Thomas Jene	FR	ARC	Bx 3049		4325 Cornell Ave., Greensboro, NC
Martin, Walter Devaughn, Jr.	JR	ASZ	404D Bragaw Ex 15370	TE4-9754	Rt. 2, Ronda, NC
Martin, Wilco Allen	JR	CE	426A Bragaw	TE4-2934	309 6th St., Belmont, NC
Martin, William Austin	SR	MED	2226 Hillsboro St.	TE2-2584	L-2 Beverly Apts., Asheville, NC
Martin, William Penn	SO	AGI	253 Owen Ex 4504		3806 Groometown Rd., Greensboro, NC
Martin, William Ray	SO	ABA	1718 Hillsboro St.	VA8-4404	Rt. 2 Box 95-A, Lenoir, NC
Marvel, Russell Gene	SR	HFA	115 Harrison Ave.	833-6537	115 Harrison Ave., Raleigh, NC
Marwitz, Charles Anthony	SR	EE	234 Becton Ex 3768		501 Reynolds Dr., Charlotte, NC
Mas, Henri	JR	TXT	Bragaw		160 Tates, Mexico 5, D.F., MEX
Masencup, Henry Michael	SO	MB	302 Berry Ex 4322	TE2-9363	1105 E. Polo Rd., Winston-Salem, NC
Mashburn, Harry Lee	JR	CE	10 Enterprise St.		1839 W. First St., Winston-Salem, NC
Maske, Billy Brown	SR	AHF	121 Becton Ex 3721		Rt. 1 Box 211, Mt. Gilead, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Aske, Bobby Charles	SR	ASF	121 Becton	TE2-9256	Rt. 1, Mt. Gilead, NC
Asao, Cesar Augusto	SO	SE	228 Turlington Bx 4256		T120L #307, San Juan, Puerto Rico
Asen, Clarissa	SO	AMA	2824 Barmettler St.	TE2-0507	Rt. 3 Box 42, Washington, NC
Asen, Daniel Hewitt	FR	MEA	2141 Cowper Dr.		Rt. 1, Forest City, NC
Asen, James Alexander	FR	ENG	314 Syme		1005 Dakota St., Kannapolis, NC
Asen, James Wallace	SO	SE	3013 Parrior Rd.		Box 176, St. John, NC
Asen, John Rufus	SR	MEA	1908 Park Dr.	TE2-5406	Box 190, Newport, NC
Asen, Naven Miller	SO	ARC	213 Cox Ave.		2715 Homos Dr., Morehead City, NC
Asen, Robert Dunley	FR	ME	3305 Friar Truck Rd.	VA8-6919	3305 Friar Truck Rd., Raleigh, NC
Asen, Stanley Woodrow, Jr.	SO	ASV	Bx 5667		102 Huntington Rd., Garden City, NY
Asen, Sterlin Ernest	SR	ASZ			Rt. 1, Knightdale, NC
Assad, Elbert George	SO	ME	10 Enterprise St.		Box 376, Benson, NC
Assel, Gary Alan	GR	AFY	2322 McMullan Cir.	TE4-7786	2322 McMullan Cir., Raleigh, NC
Assengill, Jimmy Nelson	FR	A	240 Owen Bx 4494	TE2-9610	Rt. 2, Benson, NC
Assesey, Aldric Gregory	FR	EST	619 W. Aycock St.	TE7-4362	2219 Oleander Dr., Wilmington, NC
Assesey, Dewey Lapiand	FR	TAT	1517 Cherokee Dr.	TE3-6553	1517 Cherokee Dr., Raleigh, NC
Assesey, James Thurston	JR	EST	Turlington Bx 4213	834-9279	121 Whitaker St., Clayton, NC
Asselstein, James Eastman	FR	NE	132 Tucker Bx 4643	TE2-9388	RD 2 Unad Trail, Newark, DEL
Asst, Richard Joseph	FR	NE	1218 Milmore St.		3990 Kidder Rd., Almont, MICH
Ashtony, Alfred Paul	FR	ME			Rt. 1, Forest City, NC
Ashton, Edward Branson, Jr.	SR	PY	Gold	TE2-9642	Grandview Dr., Brevard, NC
Ashton, Gordon Graham, Jr.	SO	TAT	1719 Hillsboro St.	TE4-2001	702 Catawissa Ave., Sunbury, PA
Ashton, Joseph Robert	SO	SE	17 Becton		221 1st Ave. N., Conover, NC
Ashtown, Harry John	SR	TAT	C-24 McKinnon Vill.	TE4-2198	361 Reed St., Asheville, NC
Ashtown, Eugene Huffman	GR	ME	2918 O'Berry St.	834-5826	Rt. 7, Burlington, NC
Ashtock, David Joseph	GR	CE	10 Stadium Bx 4355		1027 Ada Ave., Winston-Salem, NC
Ashtock, Ronald Jefferson	SR	MEA	120 Turlington Bx 4217	834-9214	4414 Kinnaman Rd., Louisville, KY
Ashtone, Kenneth Wager	SO	IA	1333 Duplin Rd.	TE3-5584	1333 Duplin Rd., Raleigh, NC
Ashtouch, Robert Joseph	DR	SE	201 Gold Bx 3213		110 Elm Dr., Monaca, PA
Ashtuch, Ralph Kenneth	GR	AGE	3411 Octavia St.		3411 Octavia, Raleigh, NC
Atthens, Douglas Harold	MK	IDS	3620 Cove Dr.	828-7778	208 Grace Dr., Wilson, NC
Atthens, Hazel Benton	SR	ASZ	105 Bragaw	TE2-9129	Box 192, Hertford, NC
Atthens, John Wesley	FR	GS	103 Dixie Trail	TE3-2285	103 Dixie Trail, Raleigh, NC
Atthens, John Edward	SO	SE	25124 Everett Ave.		508 Chisholm St., Sanford, NC
Atthens, Joseph Carson, Jr.	DR	ARC	4706 Western Blvd.	TE3-8095	4706 Western Blvd., Raleigh, NC
Atthens, Robert Glenn	SR	ASV	411 Gardner St.	828-8155	Wilmington, NC
Atthens, Robert Mitchell	SO	ASL	Bx 4737		Rt. 1 Box 9, Scranton, SC
Atthens, Thomas Parker	SO	MEL	4084 Bragaw Bx 15375		305 Caswell St., Kinston, NC
Attox, Arthur Douglas	JR	LS	L-13 MSH	TE3-8364	L-13 MSH, NCSC, Raleigh, NC
Attuze, George Anthony	JR	ASH	Bx 4251	TE2-9297	138 Beverly Rd., Hempstead, NY
Augsens, Burton Thomas	SO	ME	305 Syme Bx 3569	TE2-9222	2074 Stoneybrook Dr., Tucker, GA
Auk, Samuel Gerald	SR	FOR	Turlington Bx 4293		474 W. Main St., Morehead, KY
Auldin, Clara Anne	UN	GS	Catholic Orphanage	TE2-5634	Sacred Heart, Belmont, NC
Auldin, George William	FR	TXT	255 Owen		361 N. Depot St., Albemarle, NC
Aultsby, William Manfred	JR	ME	209 Berry Bx 4316	TE2-9363	6354 Oleander Dr., Wilmington, NC
Aunder, William Curtis	JR	IA	126 Tucker	TE2-9367	3022 Kinnaman St., Winston-Salem, NC
Aune, Fleming	SO	EE	Rt. 1, Cary		3600 Margrace Rd., Kings Mtn., NC
Aune, Fred Eugene	FR	EE	112 Syme Bx 5514	832-9288	342 Lee St., Shelby, NC
Aune, James Marshall	FR	ARC	208 Welch Bx 3256	TE3-9119	Burgas, NC
Aupin, James Arnold	FR	EE	625 Georgetown Pl.	833-8626	16442 Plymouth Rd., Detroit, MICH
Auro, Albert J. Jr.,	SO	MEL		TE2-9131	550 South Ave., Verona, PA
Aus, James Reginald, Jr.	GR	ME	Triangle Forest, Cary	467-1230	Triangle Forest, Cary, NC
Austin, George Campbell	JR	MEA	Bx 1044	TE4-9253	224 S. Camwell Rd., Charlotte, NC
Awell, George Henry	SO	ME	401C Bragaw		Oak Dr., Elizabethton, TENN
Awell, Jerry Myron	SO	AL	701 Bashford Rd.	TE3-6833	701 Bashford Rd., Raleigh, NC
Awell, Robert Glenn, Jr.	FR	ME	Owen Bx 4576	834-8836	48 Broadview Ave., Asheville, NC
Awell, Robert Glenn, Jr.	FR	SE	Q-309 MSH	832-5645	332 Belton Ave., Mt. Holly, NC
Awell, Robert Glenn, Jr.	SR	MEA			1211 May Ct., Burlington, NC
Awell, Robert Glenn, Jr.	SR	MEA	1720 Hillsboro St.	VA8-9204	Rt. 4 Mt. Olive, NC
Awell, Robert Glenn, Jr.	SR	MEA	305 Syme Bx 3569	TE2-9222	Box 1183, Hendersonville, NC
Awell, Robert Glenn, Jr.	FR	MEA	208 Tucker Bx 4577	TE2-9387	208 Tucker Bx 4577, Durham, NC
Awell, Robert Glenn, Jr.	FR	MEA	Bx 4577	TE4-9300	Rt. 3 Box 235, Rocky Mount, NC
Awell, Robert Glenn, Jr.	FR	ME	309 Becton Bx 3777	TE2-9372	2510 State St., Durham, NC
Awell, Robert Glenn, Jr.	FR	MEL	318 Syme Bx 3582	832-9222	Box 221, Burkeville, VA
Awell, Robert Glenn, Jr.	SR	ARC	1913 Ridge Rd.	828-3989	426 Cleavelly Lane, Hampton, VA
Awell, Robert Glenn, Jr.	SR	TC	125 Cox Ave.	828-8758	125 Cox Ave., Raleigh, NC
Awell, Robert Glenn, Jr.	SO	AFY	Bx 4737	TE2-9334	1211 May Ct., Burlington, NC
Awell, Robert Glenn, Jr.	PRO	ARC	1913 Ridge Rd.	828-3989	1913 Ridge Rd., Raleigh, NC
Awell, Robert Glenn, Jr.	SR	ARC	1204 Groveland Ave.	833-0359	2828 St. Andrews, Charlotte, NC
Awell, Robert Glenn, Jr.	SR	LS	Bx 4577		1211 May Ct., Burlington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Mayfield, Frank Boyd		AGI	310 Owen Bx 4527	TE4-9300	Rt. 1, Norlina, NC
Mayhew, Robert Darrell	FR	MEA	20 Becton Bx 3821	832-9261	Rt. 1, Troutman, NC
Maynard, James Earnest	UN	GS	2119 St. Mary's	TE2-5142	2119 St. Mary's St., Raleigh, NC
Mayo, Dan, Jr.	FR	TXT	104 Becton Bx 3704	TE2-9236	Rt. 3 Box 272, Washington, NC
Mayo, Elliott Ashbel	FR	PY	236 Owen Bx 4490	832-9252	1401 Heather Lane, Charlotte, NC
Mayo, George Solomon	SO	CHE	1508 Frank St.		Rt. 4 Box 20, Greenville, NC
Mayo, Flossin	FR	TC			Salaverry 3100, Lima, PERU
Mayo, Thomas Malon	FR	ARC	2602 Van Dyke	834-0982	4822 Dundee Rd., Jacksonville, FLA
Mays, Lawrence Ray	FR	CE			Sandy Ridge, NC
Mayton, Frances Waverly	FR	MED	302 Glascock St.		302 Glascock St., Raleigh, NC
Mayton, Robert Leslie	SR	NE	302 Glascock St.		302 Glascock St., Raleigh, NC
Mazuy, Cordelia Kay K.	DR	EST			514 Lindsay St., Carrboro, NC
Meade, Allan Stoddard	SR	CEC			90 Hamilton Rd., Chapel Hill, NC
Meade, Ransom Snyder	JR	ME	2709 Clark Ave.	TE2-9484	2627 Idlewood Cir., Charlotte, NC
Meade, Shelton Gene			3709 Lee Rd.	TE4-9565	Ardmore Rd., Landover, MD
Meador, James Samuel	FR	ASE	212 Owen Bx 4468	TE2-9410	Rt. 3 Box 164, Reidsville, NC
Meadows, Julian Curtis, III	FR	ASW	240 Owen Bx 4494	832-9252	216 Cottage Pl., Charlotte, NC
Moran, Cesar Augusto	DR	GN	2617 Van Dyke		Gonzalez Prada 540, Surquillo, Lima, Peru
Meares, James Daniel	SO	CE			Gloucester, NC
Meares, James Goodman		GS	1013 Franklin Rd.	TE2-1707	110 Iona St., Fairmont, NC
Mears, Luther Daniel	FR	NE	Tucker Bx 4659	TE2-9388	320 Clifton Rd., Rocky Mount, NC
Meceda, John Robert	MR	EE	307 Hillcrest Rd.	832-5613	2834 Heath Ave., Bronx, NY
Medlin, Dennis Brantly	JR	AMA	3 Becton Bx 3805		Rt. 3, Benson, NC
Medlin, Sanford Price	SR	MTE	Rt. 1, Cary		Rt. 6, Monroe, NC
Medlin, Winfred Edward, Jr.	FR	AGI	221 Alexander Bx 4150	TE4-9746	113 Aiken St., Fuquay Sprigs, NC
Medlin, Andrew Jackson	SO	CE	203 Becton Bx 3737	TE2-9334	312 Reid St., Thomasville, NC
Meece, Roy Erwin	SO	ASE	228 Becton Bx 3762	TE2-9334	57 School Rd., Asheville, NC
Meeks, Leonard Dwayne	SO	EE	201 Welch Bx 3249	TE2-9119	217 Kendall St., Spray, NC
Mehlich, Leonard Adolf	FR	ME	3410 Lewis Farm Rd.	TE4-8036	3410 Lewis Farm Rd., Raleigh, NC
Mehla, Pravin Chandra		SOI	205 Ashe Ave.		Ahmedabad, India
Meier, Gerald Thomas	GR	IE	825 Holt Dr.	832-5978	2717 Reynolds St., Flint, MICH
Meigge, Ronald Earnest	FR	EE	303 Welch Bx 3263	TE2-9119	Camden, NC
Meinrath, Roberto	SR	TC	123 Bagwell	TE4-9219	Rainha Elizabeth 201, Rio De Janeiro Brazil
Mellette, Francis Marion, III	FR	AGI	21 E. Stadium		Box 25, Deep Run, NC
Melle, Robert William	SO	ARC	Welch Bx 3239	TE2-9119	5008 Townsend Way, Bladensburg, MD
Melton, Braxton Bragg	SO	GEE	106 Ashe Ave.	833-8747	520 Ervin Rd., Morganton, NC
Melton, Robert Barry	SR	CE	703 Wade Ave.	TE3-7355	114 Underdown Ave., Lenoir, NC
Melton, Robert Dean	FR	MEA	56 Tucker Bx 4806	TE2-9337	2660 Chilton Pl., Charlotte, NC
Mendez, Orlando Alberto	MR	NE	2717 Royster Rd.	TE3-2657	Apartado Aereo 7020, Bogota, Colombia
Mendez, Jose Francisco, II	UN	GS	1863 W. Smallwood Dr.	833-5412	1863 W. Smallwood Dr., Raleigh, NC
Mercer, Charles Devon	SO	ASB	12 1/2 Daisy St.		403 Biltmore St., Greenville, NC
Mercer, Donald Glenn	FR	AMA	312 Owen Bx 4528	TE4-9300	Rt. 1, Beulahville, NC
Mercer, Gene Beauregard	SO	MED	130 Tucker Bx 4641	TE2-9367	Rt. 2, Pink Hill, NC
Merrick, James Allen	GR	CHE	2717 Cooleemee Dr.	TE3-7669	Box 128, Reidsville, NC
Merrihew, William Stewart	SR	PQM	303 Turlington		358 St. Johns Pl., Brooklyn, NY
Merrill, Ralph Benjamin, Jr.	SO	NE	201 1/2 Park Ave.	TE2-7050	2259 Sherwood Dr., Winston-Salem, NC
Merritt, Edward Earl	SO	ATC	402B Bragaw Bx 15364	TE4-9754	Rt. 3 Box 166, Kinston, NC
Merritt, William Carlyle	FR	CE	Becton Bx 3775	TE2-9372	1326 Graham St., Burlington, NC
Messick, Robert Eugene	SR	PD	1217 Kent Rd.	TE4-3235	915 N. Washington St., Shelby, NC
Metcalfe, Harold Lynn		ENG	2410 Van Dyke Ave.	TE4-1947	2410 Van Dyke Ave., Raleigh, NC
Mettrey, Michael Thomas	JR	ME	1402 Wake Forest Rd.	TE3-2367	1402 Wake Forest Rd., Raleigh, NC
Mettrey, William W., Jr.	GR	EST	1402 Wake Forest Rd.	TE3-2367	1402 Wake Forest Rd., Raleigh, NC
Metz, David Alan	SO	WT	2718 Clark Ave.	TE2-5451	19 Oregon Dr., Huntington Sta., NY
Metzger, Gerald David	FR	ASE	367 Tucker Bx 4793	TE2-9323	108 Murray Dr., Beaver, PA
Metalter, Carl Maust	DR	EST	8 Maiden Lane		201 Westwood Rd., Goshen, IND
Meyer, Arnet Henry, Jr.	FR	MEA	Bx 4593		1924 Commonwealth Ave., Charlotte, NC
Meyer, Gene James	JR	WT	425C Bragaw Bx 15201		92-38 220th St., Queens Vill., NY
Meyer, William Lee	SO	AS	331 Becton Bx 3799		Box 148 Nashville Hwy., Rocky Mt., NC
Miceli, John	FR	RPA	Bx 4665	828-3534	750 4th St., Oakmont, PA
Mickey, William Lawrence	JR	CE	YMCA Ex 5667	TE4-9521	309 Eden Terrace, High Point, NC
Mickle, Clyde Burruss	SR	MED	1720 Hillsboro	VA8-9200	623 "D" Ave., Salisbury, NC
Middleward, Francis Fulton	GR	EST	614 Powell Dr.		1 Sky Ridge Rd., Landenberg, PA
Middleette, Jack Boyd	FR	AED	127 Alexander Bx 4129		Rt. 2 Box 225, Aurora, NC
Midgett, Johnny Baldwin	SO	ZO	2602 Van Dyke Ave.	834-0982	Box 104, Hillsboro, NC
Mikhaicoff, James	FR	IE	Tucker Bx 4665	TE2-9367	235 Main St., Steelton, PA
Miles, Kenneth Edward	SO	CE	404 E. Edenton St.	832-4536	1910 Malone Rd., Burlington, NC
Millard, Albert Elijah, Jr.	FR	TXT	304 Owen	TE4-9300	102 Stowe St., Belmont, NC
Miller, Archie Rudolph	GR	EE			506 Cameron Rd., Graham, NC
Miller, Billy Ray	GR	AGC	G-11 MSH	832-8044	G-11 MSH, NCSC, Raleigh, NC
Miller, Bruce Charles	FR	ME	309B Bragaw Bx 15117		Rt. 1, Burlington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Miller, Calvin Max	SR	EE	519 W. Aycock	VAB-4734	519 West Aycock St., Raleigh, NC
Miller, Charles Isaac, Jr.	ASV		Tucker Bx 4799	TE2-9239	Rt. 5, Meckville, NC
Miller, Charles Raymond	FR	ARC	148 Tucker Bx 4655		1 Shoreland Dr., Manhasset, NY
Miller, Cleyd Franklin	SO	IE	3212 Merriman Ave.		Rt. 5 Box 730, Hickory, NC
Miller, David King	SO	ME	Tucker Bx 4671	TE2-9388	1861 La Salle, Mobile, ALA
Miller, David Sanders	SO	ME	2514 Clark Ave.	TE2-9148	96 Eastover, Concord, NC
Miller, Gene Spencer	SR	MDM			Rt. 7, Box 116, Salisbury, NC
Miller, Glenn Edward	SO	ME	425 Yarmouth Rd.	TE3-0134	540 Corlies Ave., Phillipsburg, NJ
Miller, Harold Taylor	SO	PT	2426 Hillsboro	TE4-9859	Belcross, NC
Miller, Henry Lloyd	SR	AED	1115 Hillsboro St.		Rt. 4 Box 1340, Salisbury, NC
Miller, James Graham	EW	CH	411 Wayne Dr.	828-8732	411 Wayne Dr., Raleigh, NC
Miller, James Patrick	FR	ME	323 Tucker Bx 4754	TE2-9232	4037 Freedom Dr., Charlotte, NC
Miller, James William	JR	IATO	2512 Clark Ave.	TE2-4843	47 Davis St., Coaleman, NC
Miller, Lee Grant	FE	MEA	350 Owen Bx 4561		Rt. 1, Boonville, NC
Miller, Lewis Richard	SO	PT	Owen Bx 4511	TE2-9252	Box 696, Carthage, NC
Miller, Lloyd Willis, Jr.	FR	ATE	48 Owen Bx 4582		Rt. 1 Box 175, Candler, NC
Miller, Philip Ralford, Jr.	EW	ZO	2514 Clark Ave.	TE2-9148	31 Louise Ave., Concord, NC
Miller, Preston Smith	FR	CE	141 Owen	TE2-9437	Rt. 4, Statesville, NC
Miller, Richard Carl	FR	NE	2412 Everett Ave.		Box 195, West Jefferson, NC
Miller, Robert Werdell	FR	AMA	308A Bragaw Bx 15322		17 Carey Rd., Great Neck, NY
Miller, Ronald Lawrence	FR	IA	227 Bagwell	TE2-9131	130 Bay First St., West Islip, NY
Miller, Stephen Randall	FR	MEA	61 Tucker Bx 4811	TE2-9237	Rt. 6 Box 815, Charlotte, NC
Miller, Thomas	MR	PP	3112 Douglas St.	TE4-5402	Rt. 1 Box 307, Fletcher, NC
Miller, Theodore Clifford	SO	EE	157 Tucker		1315 Brooktown Ave., Winston-Salem, NC
Miller, Thomas Benbow	JR	CRE	1408 Hillsboro		890 Meckville Ave., Salisbury, NC
Miller, Thomas Mitchell	FR	EE	151 Tucker Bx 4658	TE2-9388	Rt. 1 Box 72, Salisbury, NC
Miller, Vandy Bruce	FR	CHE	109 Syme Bx 3509		Rt. 4 Box 896, Morganton, NC
Miller, Walter Warren, Jr.	SO	CE	2731 Everett Ave.	TE2-4134	207 S. Audubon Ave., Goldsboro, NC
Miller, William Dykstra					
Milbriser, Frederick Robert	JR		1408 Hillsboro St.	TE4-5717	839 Jefferson Ave., Waynesboro, VA
Miner, David Earl, Jr.	SR	ME	217C Bragaw Bx 15082		2726 Jackson St., Wilmington, NC
Mills, Allen George	SR	ARC	2310 Van Dyke Ave.	828-2479	626 Jersey Ave., Winston-Salem, NC
Mills, Edward Ingram	SO	ARC	124A Bragaw Bx 15251	TE2-9180	Box 724, China Grove, NC
Mills, Graham Mackereit	FR	AGI	148 Owen Bx 4439	832-9115	Rt. 2 Box 443, Greenville, NC
Mills, Herbert Cornell	MR	GEE	104 E. Whitaker Mill	TE2-0279	6 Ridge Dr. W., Reelyn, NY
Mills, James Henry	FR	MEA	122 Owen Bx 4417		Rt. 1 Box 733, Cary, NC
Mills, James Kenneth	SO	ATE	2625 Wells Ave.	TE2-2261	Rt. 3, Marshville, NC
Mills, James Theodore	SO	TXT	1201 Kent Rd.	833-2547	607 S. De Kalb, Shelby, NC
Mills, Jesse Reid	MR	ME	2017 Fairview Rd.	VAB-5053	360 Albans St., Burlington, NC
Mills, Joseph Irvin, Jr.	SR	ME	931 Tower St.		931 Tower St., Raleigh, NC
Mills, Kenneth Evans	JR	ME	2228 Hillsboro St.	TE3-5082	527 Park Terr., Greensboro, NC
Mills, Leonard Earl	JR	EE	Rt. 4	834-1100	Rt. 4 Macedonia Rd., Raleigh, NC
Mills, Milton Kent	SR	EE	224 Woodburn Rd.		1421 N. Main St., Mooresville, NC
Mills, Richard Clark	SO	EE	Bx 3318		Box 262, Taylorsville, NC
Mills, Robert Morris	SR	ME	107 Welch Bx 3234	TE2-9119	Aurora, NC
Mills, Robert Rourke, Jr.	MR	NE	207 W. Boudry, Cary	467-3496	621 N. 10th St., Manitowoc, WIS
Mills, Robert Saleeby	JR	CHE	209 Watauga Bx 3027		Rt. 1 Box 261, Watha, NC
Milleps, Stephen Watts	SR	IA	Bx 15140		Rt. 1, Stony Point, NC
Milwood, Ervin Randolph	JR	IA			3212 Duke Homestead Rd., Durham, NC
Mine, Robert Campbell	MR	AEC	C-28 MSH		8305 Woodhaven Blvd., Bethesda, MD
Minton, David Fleming	SR	EE			Rt. 1, Lillington, NC
Mims, Hazel Elbert	JR	TXT	Turlington Bx 4215	834-9279	124 Soles St., Rockingham, NC
Mims, Galen Franklin	SO	PD	205 Ashe Pl.	TE2-2598	2117 Club Blvd., Durham, NC
Mincey, Charles Dixon	FR	EE	318 Becten Bx 3786	TE2-9372	Rt. 1, Hillsboro, NC
Minday, Richard Michael	FR	CHE	254 Owen Bx 4505	832-9252	1518 Crystal Rd., Charlotte, NC
Minnett, Charles Parker	FR	ARC	308 Tucker Bx 4741		430 Morris Ave., Bryn Mawr, PA
Minges, Richard Beryl, Jr.	FR	ME			
Mink, Lawrence Albright	DR	AFY	213 Polk St.	VAB-7333	Rt. 1 Box 288, Winston-Salem, NC
Minkler, Jackson Dwight	FR	AMA	214 Becten Bx 3748		306 Peach St., Shelby, NC
Minnetti, Peter Lee	DR	SSC	A-25 MSH		110 Leonis St., Burlington, VT
Minton, Willard H.	DR	ACC	2301 Barmettler St.	828-0436	2848 Scattle Dr., Lexington, KY
Mione, Anthony John	DR	ME	4528 Laurel Hills Rd.	833-5109	4528 Laurel Hills Rd., Raleigh, NC
Mirza, Jhangir Farhad	DR	CE	2809 Bedford Ave.	832-0935	127 Muslim Colony, Karachi, Pakistan
Misenheimer, Lester Eugene	JR	EE	4-3007 McKimmon Vill.		Box 237, Faith, NC
Misirl, Ismail Suleyman	SO	TC	210 Cox Ave.	833-8722	Galatasaray 196, Istanbul, Turkey
Mitchell, Angelo Michael	SO	ME	409C Bragaw Bx 15159	TE4-9757	602 Mahaley Ave., Salisbury, NC
Mitchell, Barre Ryan	SR	PPT	Box 5484	TE2-1183	2724 Vanburen St., Wilmington, NC
Mitchell, Calvin Acuff	FR	ASW	252 Owen		200 Grandin Dr., Charlotte, NC
Mitchell, Don Newton	SR	EST	116 Forest Rd.	TE3-9390	838 Glencoe Rd., Durham, NC
Mitchell, Everett Royal	GR	ENT	G-13 McKimmon Vill.		Rt. 2, Itasca, TEXAS

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Mitchell, Gerald Smith	FR	ENG	Tucker Bx 4733	TE2-9387	Bex 89, Morehead City, NC
Mitchell, Jerry Smith	FR	ME	339 Tucker Bx 4769	TE2-9323	Rt. 1, Walnut Cove, NC
Mitchell, John Adam	FR	EE	217 Turlington Bx 4245	TE2-9297	605 Degwood Lane, Guilford Coll., NC
Mitchell, John Douglas	FR	ENG	203 Owen	TE2-9410	Rt. 4, Winston-Salem, NC
Mitchell, Paul Blackburn, Jr.	JR	TXT	304 Horne St.	TE3-5171	4204 Union St., Raleigh, NC
Mitchell, Virginia Willard			3609 Bellevue Rd.	TE4-7688	3609 Bellevue Rd., Raleigh, NC
Mitchell, William Arnold	SO	EE	Rt. 4		Rt. 4, Raleigh, NC
Mitchell, William Royal	SO	ARC	12 Berry Bx 4345	TE2-9350	723 S. Main, Wake Forest, NC
Mitcnen, Terry Kermit	SR	MEA	2805 Bedford Ave.		Rt. 2, Lenoir, NC
Mitchem, William Alvin	SR	EE	335 Alexander Bx 4196		Rt. 1 Box 314, Beasemer City, NC
Mitchner, Robert Kenneth, Jr.	JR	MEA	K-26 MSH	TE3-9565	219 St. Mary's St., Garner, NC
Mitchum, Patricia, Gail	SO	LA	117 Cox Ave.	828-5831	205 Hillside Lane, Lenoir, NC
Miura, Takeshi	DR	ENT	54 Dixie Dr.	TE4-5644	Hiroshima, Japan
Mixen, Benjamin Harrell	SO	CE	619 W. Aycock St.		275 Country Club Dr., Henderson, NC
Misell, Ronald Stephen	FR	PPT	1104 Harp St.		Rt. 3 Box 254, Washington, NC
Mobley, Malcolm Key	FR	ME	4205 Western Blvd.		Valdese, NC
Mobley, Reger Ward	FR	NE	405 Furches St.	TE4-5437	Rt. 2 Bx 276, Williamston, NC
Mobley, Roland Keith	FR	MEA	253 Tucker Bx 4720	832-9387	Rt. 8 Box 473, Statesville, NC
Medlin, David Guy, Jr.	FR	NE	206 Bagwell		503 Haughton St., Williamston, NC
Meeller, Margaret Mitchell	GR	OIG	405 Furches St.	TE4-5437	405 Furches St., Raleigh, NC
Meffitt, Arthur Boyd	JR	TC	Bx 15305		Rt. 1, Staley, NC
Meffitt, William Carl	FR	EE	Becton Bx 3750	TE2-9334	2223 Winterlechen Dr., Fayetteville, NC
Mohamed, Samir Ali			Bx 5828	TE3-2733	Cairo, Egypt, UAR
Mohan, Thomas Jehu	SR	HS	1014 Gorman St.	TE4-7157	1014 Gorman St., Raleigh, NC
Mohern, Donald Royce	GR	CS	828 Cooper Rd.		Rt. 3, Enfield, NC
Molina, Mariano	ME	ME	222 Park Ave.		326 Julio Sanguily, Camaguey, Cuba
Monaco, Thomas Joseph	DR	PC	221 Forest Rd.	TE2-5074	229 Midland Ave., Kearny, NJ
Monage, John Peter	FR	MED	158 Tucker Bx 4665	TE2-9364	162 High St., Bradford, PA
Moncade, Jesus	GR	SSC	2717 Derchester Ct.	828-9948	Abbott 108, Saltillo, Mexico
Monday, Paul Douglas		ENG	251 Tucker Bx 4718	TE2-9387	1135 Peyton Randolph Dr., Falls Church, VA
Moneyhan, Edgar Jehnaie	JR	RPA	19 Becton Bx 3820		503 Longview Dr., Fayetteville, NC
Monk, Ben T.	FR	CEC	250 Owen		207 S. Contentnea St., Farmville, NC
Monk, Harry Eugene	FR	CE	339 Owen Bx 4553	834-9836	21 13th St. S.E., Hickory, NC
Monk, James Tancey, III					Contentnea St., Farmville, NC
Monk, Ralph Bruce	SR	SED	226 Syme Bx 3558	TE2-9150	Rt. 3, Roxboro, NC
Monroe, Allison Dwight	FR	PY	236 Owen Bx 4490	TE2-9410	435 Hemp St., Robbins, NC
Monroe, John Raymond	SO	EE	101D Bragaw		2606 Beechwood St., Greensboro, NC
Monteiro, Warton	MR	GN	B-24 MSH	828-6018	Rua Rio De Janeiro, Belo Horizonte, Brazil
Montgomery, Carl Eugene	SR	ATD	107 Grand Ave.	828-7809	107 Grand Ave., Raleigh, NC
Montgomery, Don Barry	JR	MVA	Owen Bx 4586	TE2-9142	709 Eford St., Albemarle, NC
Montgomery, Henry Eugene	SO	LA	309 Bagwell		1014 Knox St., Durham, NC
Moody, Garrett Eugene			2902 1/2 Everett Ave.	828-8852	Box 143, Lake Junaluska, NC
Moong, Seung Gyu	GR	RS			118 Wolchun, Moonchuck, Kurye, Cholla-namdo, Korea
Moore, Allen Burnell	JR	POM	312 Turlington	TE2-9192	249 Boiling Spr. Dr., Lexington, KY
Moore, Charles Franklin	SR	CE	45 Owen Bx 4580	TE2-9192	Rt. 2, Marshville, NC
Moore, Clarence Richard	JR	CE	126 Becton	TE2-9256	202 S. Jackson St., Wilson, NC
Moore, Curtiss Alexander	SO	ASZ	Bx 5332		601 Hinsdale St., Raleigh, NC
Moore, David Carroll	SO	ES	Bx 15376		Bex 18, Hudson, NC
Moore, David Hight	SO	CHO	228 Becton	TE2-9334	27 Cranford Rd., Asheville, NC
Moore, David Michael	SO	AWC	111 Watsuga Bx 3011		899 Stonewall, Memphis, TENN
Moore, Donald Lee, Jr.	FR	E	338 Turlington Bx 4297		201 Maple St., Brevard, NC
Moore, Ernest William, Jr.	SO	IE			2717 Lake Shore Dr., Wilmington, NC
Moore, Eugene Hardie	FR	A	18 Stadium Bx 4363		Rt. 7 Box 625B, Lenoir, NC
Moore, Fran Marie	JR	EST	2244 The Circle	828-0476	2244 The Circle, Raleigh, NC
Moore, Gerald Nathan	SR	PY		467-1590	Arbor Villa Apts., Cary, NC
Moore, Glenn Alden	SO	ASE	210 Owen	TE2-9410	Rt. 6 Box 98, Statesville, NC
Moore, Glenn Hugh	GR	ME	543 Ceoper Rd.	834-2587	543 Cooper Rd., Raleigh, NC
Moore, Harry Ballard, Jr.	DR	ENT	1228 Wickham Rd.	TE4-5035	5128 Wickham Rd., Raleigh, NC
Moore, Harace Palmer	FR	RPA	210 Berry		310 Meaby Ave., Littleton, NC
Moore, James Robert	JR	CE			701 Madison Ave., Cary, NC
Moore, Joe Gordon	FR	CHE	Bx 4541	TE4-9300	1705 Christopher St., Fairfax, VA
Moore, Jerry Lee	FR	ACI	Tucker Bx 4795		Hurdle Mills, NC
Moore, Jerry Lynn	SO	ME	124 Turlington		513 W. 8th Ave., Gastonia, NC
Moore, John Laughridge	SR	PPT	2351 Bernard St.		115 Breezeview St., Waynesville, NC
Moore, Joseph Bruce	SO	NE	307 Turlington Bx 427		1203 Millview Rd., Chapel Hill, NC
Moore, Joseph Lewis, Jr.	JR	MTE	224C Bragaw Bx 15090		2713 Riddick Dr., Raleigh, NC
Moore, Keith Rogers	SO	EE	127 W. Park Dr.	VAB-7973	700 Packard Ave., Kannapolis, NC
Moore, Kinchen Carl	FR	TXT	238 Turlington Bx 4263	TE2-9297	113 Park Ave., Fuquay Springs, NC
Moore, Mitchell	SO	AMA	16 W. Boylan Ave.	TE2-0073	124 Center St., Cordeva, NC
Moore, Ray David	FR	PPT	135 Tucker	TE2-9388	Rt. 3 Box 196, Washington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Moore, Reginald Graham, Jr.	FR	CEC	55 Tucker Ex 4805	TE2-9237	Box 303, Chapel Hill, NC
Moore, Richard Arnold	SR	ASE	314C Bragaw		Rt. 1, Aulander, NC
Moore, Richard Horton	JR	CEC	10 Enterprise St.		106 Spring Ave., Spring Lake, NC
Moore, Richard Minney	UN	GS	Box 5342		709 Grandview Dr., Alexandria, VA
Moore, Robert Hayes, Jr.	SO	TAT	2731 Eversheave	TE2-4134	906 Murray Ave., Durham, NC
Moore, Robert John	FR	ATD	Box 15069	TE2-9185	Rt. 1, Haw River, NC
Moore, Robert Shaw	SO	MFE	Enterprise St.		Box 519 Rt. 2, Clayton, NC
Moore, Reger Crawford	SR	RFA	Bagwell 1		Box M, Littleton, NC
Moore, Thomas Edwin	SR	ARC	2315 Byrd St.	TE2-3101	2315 Byrd St., Raleigh, NC
Moore, Thomas William	FR	EE	236 Owen Ex 4490	TE2-9410	980 Central Ave., Mooresville, NC
Moore, William Edward	SO	NE	264 Tucker		Box 2, Moncure, NC
Moore, William Robert	SO	MEA	104 Bagwell		202 Jackson St., Wilson, NC
Moore, Thomas Larry	FR	FCM	Box 453, Cary	HO7-9607	Box 453, Cary, NC
More, Pablo	TAT		212 Welch Ex 3260	TE2-9119	Montevideo, Uruguay
Morreau, David H.	MR	CE	Box 5034	828-7146	305 S. Broadway, Natchez, MISS
Moreslock, George Leslie	SO	CHE	G-23 MSH	VAB-0438	15 Dyer St., Ft. Bragg, NC
Moredith, Frederick Lane	JR	CE	608 Dixie Trail	VAB-3028	608 Dixie Trail, Raleigh, NC
Moretz, George Alfred	JR	TAT	2512 Clark Ave.	TE2-4843	1413 6th St. N.W., Hickory, NC
Moretz, James Douglas	SO	EE	208 Jones-Franklin		208 Jones-Franklin Rd., Raleigh, NC
Morgan, Billy LaRue	JR	EE	3314 Pollock Pl.		62 Beaverdam, Canton, NC
Morgan, David Franklin	JR	FCM	110 Gold	TE2-9263	104 Crescent Dr., Monroe, NC
Morgan, David Lynn	FR	RFA	4-305 MSH		Rt. 8 Box 227, Greensboro, NC
Morgan, Donald Eugene	JR	ME	211 Hawthorne Dr.	VAB-9143	2331 Glendale Ave., Durham, NC
Morgan, Donald O'Quinn	GR	ASC	621 Chappell Dr.	TE3-5600	621 Chappell Dr., Raleigh, NC
Morgan, Earl M., III	JR	ARC	11 Syme Ex 3607	TE2-9421	40 Poplar St., Badin, NC
Morgan, James Albert	JR	ASD	107 Turlington	TE4-2979	28919 Lake Rd., Bay Village, OHIO
Morgan, Johnny Milbreand	FE	IA	102 Syme Ex 3502	832-9288	401 Hillelde Ave., Lexington, NC
Morgan, Julian Ernest, Jr.	FR	ARC	120 Woodburn Rd.		643 Spring Lane, Sanford, NC
Morgan, Richard Miller	SR	PY	207 Welch Ex 3255	TE2-9119	11 Woodley Ave., Asheville, NC
Morgan, Robert Ray	FR	MEA	60 Owen	832-9142	Zirconia, NC
Morgan, Wade Elliott	FR	EE	2 Stadium		Rt. 2, Hertford, NC
Morgan, William Baeford	FR	ME	108 Watauga Ex 3008	TE2-9447	438 So. Hite, Louisville, KY
Morgan, William Luther	SO	IS	302 Park Ave.		302 Park Ave., Raleigh, NC
Morille, Francisco Jose	DR	ANS	1106 Parker St.	833-6810	Ave. 17 #121-27, Maracaibo, VENEZ.
Morrell, Fred Mitchel, Jr.	MR	EE	3426 Carolyn Dr.		3426 Carolyn Dr., Raleigh, NC
Morris, Ashley Wayne			1620 Hillsboro	TE4-9378	1106 Fifth St., High Point, NC
Morris, Charles Edward	SO	AMA	513 Mills St.	VAB-5062	513 Mills St., Raleigh, NC
Morris, Donald Shonk	SO	EE	112D Bragaw	TE2-9180	2398 Warwick Rd., Winston-Salem, NC
Morris, Edwin Earl	SR	EE	8 Ferndell Lane	TE2-1755	Rt. 4, Windsor, NC
Morris, Joseph Joseph	MS	EE	8 Ferndell Lane	TE2-1755	Rt. 4, Windsor, NC
Morris, Jack Crawford	JR	TAT	7 Enterprise St.	TE4-0435	717 West Ave., Wadesboro, NC
Morris, James Avery		ATH	115 Bagwell	TE4-9219	Rt. 1 Box 188, Columbia, NC
Morris, James Edward	FR	GS	3311 Clark Ave.	TE2-1664	3311 Clark Ave., Raleigh, NC
Morris, James Eugene	FR	ME	312 Tucker	TE4-9739	816 Oleander Dr., Aiken, SC
Morris, James Logan, III	SO	CHE	Box 15203	TE4-9757	Box 425, Cherokee, NC
Morris, Robert Daniel	FR	EE	Stadium Ex 4345		Rt. 1, Bryson City, NC
Morris, Robert Harvey	SR	EE	27134 Vanierbilt		4414 Major St., Charlotte, NC
Morris, Robert Tyra	JR	AMA	221 Syme	832-4150	125 Cross St., Marion, NC
Morris, Noble Rice	SK	RFA	3021 Leonard St.	VAB-2394	215 Academy, Ahsokic, NC
Morris, Wade Douglas	SO	MEA	Bagwell Ex 3366	TE2-9131	723 Fleming St., Wilson, NC
Morris, Walter Theodore, III		ANI	217 Syme Ex 3549	TE2-8150	RFD 2, Chestertown, MD
Morrison, James Davidson	SR	EE		HO7-1265	4 Holmwood Rd., Asheville, NC
Morrison, James O'Dell	SR	CE	131 Hawthorne Rd.	VAB-7620	Box 144, Southern Pines, NC
Morrison, James Phan, II	JR	GS	132 Syme	TE2-9288	Rt. 4, Concord, NC
Morrison, James Thomas, Jr.	JR	TAT	Box 3733	TE2-9256	2 Garden Ter., Asheville, NC
Morrison, John Alexander	FR	MEA	164 Owen Ex 4455	832-6318	1207 Forest Ave., Monroe, NC
Morrison, Phillip Hunter	SR	ME	305 Welch	TE2-9119	109 Wright Ave., Lenoir, NC
Morrison, White Hall, III	SO	FCM	419D Bragaw Ex 15193	TE4-1667	1162 Gateway Lane, Nashville, TENN
Morrison, William Edwin, Jr.	FR	EE	911 Williamson Dr.	TE2-8150	Rt. 2, Statesville, NC
Morrow, James Oliver	JR	NE	308 Home St.	TE2-7050	128 W. 12th St., Washington, NC
Morrow, Samuel Ray	SK	EE	120 Hecton Ex 3720	TE2-9256	Rt. 6 Box 430, Statesville, NC
Morton, Craven Coolidge	SO	FCM	Bragaw Ex 15037	TE2-9192	328 Bunn St., Albemarle, NC
Morton, Don Alvin	SR	CE	4-104 Williamson Vill.	TE4-1533	Greensboro, NC
Morton, Harmon Lindsey	SR	ME	8 Ferndell Lane	832-1755	1928 Independence Blvd., Charlotte, NC
Morton, Thomas	GR	UN	702 Shelley Rd.	832-6318	702 Shelley Rd., Raleigh, NC
Morton, James Hartwell		FCM	131 Owen Ex 4426	TE2-9437	641 Eldorado St., Troy, NC
Morton, Joseph James		ASD	22094 Hope St.	834-3244	Rt. 4 Box 96, Jacksonville, NC
Morton, Leon Ervin	JR	EE	125E Bragaw	TE2-9129	1305 Winslow Ave., Asheville, NC
Morton, Michael A.		ANI	2512 Clark Ave.	TE4-4843	Youngs Rd., Southern Pines, NC
Morton, Robert Wayne	FR	EE	Box 7561	TE4-0481	Rt. 4, Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Messely, Graham Hartwell	JR	EE	5309 Orchard St.		5309 Orchard St., Raleigh, NC
Messer, Hermit Lee	FR	ME	125 Alexander Bx 4120	TE1-9157	Claremont, NC
Messer, Robert Perry		IE	123 Owen Bx 4418	TE2-9437	Rt. 2 Box 112, Conover, NC
Messa, Douglas Gardner	FR	POW	257 Tucker	TE2-9387	1222 Ashland Cir., Bedford, VA
Moses, Gary Morris	SO	AGI	Bx 4298	TE2-9192	Rt. 3, Pittsboro, NC
Mosley, Julian Devon	MR	RS	1217 Kent Rd.	VA8-6168	Box 577, Butner, NC
Moss, Claude Wayne	GR		Rt. 1, Six Forks Rd.	TE3-8331	Box 128, Rural Hall, NC
Moss, Francis Tomlinson	SO	WT	315A Bragaw		1417 Morganton Rd., Fayetteville, NC
Moss, Willie Norwood	FR	AGI	1635 Bickett Blvd.		106 Mann St., Rocky Mount, NC
Mossler, Alfred Heinrich	FR	EE	1937 Fairfield Rd.		1937 Fairfield Rd., Raleigh, NC
Mosteller, David Elias	FR	IE	316 Watauga Bx 3052	TE2-9132	Rt. 2, Vale, NC
Motamen, Mahmood	JR	CEC	Box 5818		Tehran, Iran
Motsinger, Hugh Sharon	SO	ME	Syme Bx 3564	832-9150	Rt. 1, Kernersville, NC
Mottern, Michael McDowell	SO	CE	213 Alexander Bx 4142	TE4-9746	1405 AB Sq., Scott AFB, ILL.
Mount, Darl Allen	GR	EWT	1709 Randell Dr.	834-9989	Rt. 1 Box 36, Beggs, OKLA
Moye, Howard Dewitt, Jr.	JR	APA	3603 Van Dyke Ave.	828-7059	211 E. Home Ave., Farmville, NC
Moye, Jesse Rountree, III	SC	CE	812 Peace Ter.	828-9437	812 Peace Ter., Raleigh, NC
Mozingo, Kenneth David	SR	EE	5701 Hillsboro St.	VA8-5905	Rt. 1, Burgaw, NC
Mozingo, Roy Walton	SR	ABC	3306 Hillsboro St.		Rt. 1, Kenly, NC
Mulchi, Charles Lee	JR	ATI	Q-209 McKimmon Vill.	828-6049	Rt. 1 Box 444, Norlina, NC
Mullen, Robert Allan	MR	IED	822 Chamberlain St.	828-6946	1216 Brookstown Ave., Winston-Salem, NC
Muller, Jinx Ann	FR	AMA	2208 Garden Pl.	828-5322	212 Bolling Dr., Goldsboro, NC
Mullin, Bruce Elliott	SO	POW	5 Saction Bx 3807	TE2-9261	39 Lakeshore Dr., Asheville, NC
Mullinax, Barry Steve	SO	NE	4108 Bragaw Bx 15380		Rt. 2, Hendersonville, NC
Mullins, William Francis	FR	RPA	Berry		71 Taylor Rd., Short Hills, NJ
Mullis, Donnie Clifton	JR	CEC	218½ Park Ave.	828-8918	7508 Albemarle, Charlotte, NC
Mullis, Marcus MacArthur	FR	LE	119 Syme Bx 3519	TE2-9888	Rt. 3 Box 776A, Albemarle, NC
Munden, Fentress Horner	SR	ATC	2426 Hillsboro St.	834-9859	Rt. 4, Elizabeth City, NC
Mundy, Steven Darrell	SO	ASE	1718 Hillsboro	VA8-4464	Rt. 1, Conover, NC
Munoz-Cortes, Jhan Efrain	GR	POW	211 Gold Ex 3223		Barbosa #8, Aquadilla, Puerto Rico
Munroe, Allen Premny	JR	PMW	E-12 MSH	828-7912	Lym Mar Hills, Morristown, TENN
Murchison, William Harold	JR	AED			Box 71, Goldston, NC
Murdoch, John Carl, III	FR	CE	Owen Bx 4590	832-9142	Rt. 1, Troutman, NC
Murphy, James Otha	SR	CE	Box 99B Rt. 4		Rt. 1 Box 165A, Youngsville, NC
Murphy, James George					3339 Clark Cir., Norfolk, VA
Murphy, Thurman, Jr.	FR	CE			Rt. 2, Wendell, NC
Murray, Don Bells	SO	CE	201 Alexander	TE4-9746	Rt. 4, Monroe, NC
Murray, Finnie Ardrey, Jr.	SO	ASH	264 Tucker Bx 4731	TE2-9387	Rt. 1, Burgaw, NC
Murray, Harry L.	JR	MEA	319 Bragaw-D	834-6948	5022 Milford Rd., Charlotte, NC
Murray, James Edward	SO	ME	M-24, MSH	TE2-3036	M-24, MSH, NCSC, Raleigh, NC
Murray, James Fredrick	SC	CEC	2701 Kilgore Ave.		2303 Belvedere Dr., Wilmington, NC
Murray, Ted Lynn	FR	CEC	206 Tucker Box 4679	TE2-9387	Rt. 4, Monroe, NC
Murray, Thomas Connor	FR	GC		TE2-9484	1009 Chester Rd., Raleigh, NC
Murray, Wendell McCullen, Jr.	SO	EE	213 Becton Bx 3747	TE2-9334	309 Waverly Way, Greensboro, NC
Murphy, James George	SC	CE	224 Woodburn Ave.		Bezeureh, Damascus, Syria
Mustian, Robert David	MR	RS	104½ E. North St.	TE2-8577	Box 84, Kittrell, NC
Myatt, Thomas Allen	FR	EE	715 Woodland Rd.		Box 6, Ingold, NC
Myers, Albert Gallatin	FR	TXT	316 Alexander		2605 Armstrong Cir., Gastonia, NC
Myers, David Barry	FR	CEC	Owen Bx 4334	832-9115	312 Maegee Dr., Lexington, NC
Myers, Doyle Clinard	SR	ME	1424 Duplin Rd.		307 Taylor St., Thomasville, NC
Myers, Guy Arnold, Jr.	GR	EM	1037 St. Mary's St.	TE4-3724	2546 Reynolda Rd., Winston-Salem, NC
Myers, James Brooks	JR	PMW	406D Bragaw	TE4-9754	312 Maegee Dr., Lexington, NC
Myers, James Dee, II	SO	MEA	203 Berry Bx 4310		424 N. Hardee St., Durham, NC
Myers, Jesse Willard	SR	CEC	101 Tucker Bx 4617	TE4-3488	Rt. 1 Box 707, McLeansville, NC
Myers, William Martin	Jr	NE	5 Dixie Trail Apt 8	832-4061	601 W. Kingston Ave., Charlotte, NC
Myren, Donald T.		PP	206 Alumni Bldg.	TE2-9322	Baldwin, WISC
El Naga, Sayed Mohamed	FR	TXT	Box 5752		Port-Suïd, Egypt, UAR
Nagle, James John	MR	SN	P-220 MSH		6 Vine St., Ashley, PA
Nair, Kumaran Kavinarana	DR	ACC			Esappally, Keraca, India
Namboori, C. G. Govindan		TXT			Thrikkaryoor, Kerala, India
Nanavaty, Pankaj Anbalal	MR	ME			Baroda, Gujrat, India
Nance, Daniel Allan	UN	TS	2355 McMullan Cir.	828-6173	2355 McMullan Cir., Raleigh, NC
Nance, Hubert Malcolm, Jr.	FR	MEL	Bx 4585		853 Burke Hill, Bedford, VA
Nance, James Franklin	FR	EE	125 Hawthorne		1614 Cheek Rd., Durham, NC
Nance, Richard Allen	SR	IE	313 Watauga Bx 3049	TE2-1932	Rt. 1, Jonesville, NC
Nance, Walter Ethridge, Jr.	SR	IE	3002 Lewis Farm Rd.		3002 Lewis Farm Rd., Raleigh, NC
Narney, Donald Malone	FR	NE	217 Owen Ex 4472		Box 1972, Hendersonville, NC
Naseotian, Andi Hakim	MR	EWT	5½ Dixie Ave.		Tjiwaringin 56, Bogor, Indonesia
Nau, William Henry	SC	MEA	L-14 McKimmon Vill.		L-14 McKimmon Vill., NCSC, Raleigh, NC
			2512 Clark Ave.	TE2-4843	217-5th Ave. N.E., Hickory, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Nauss, Frank Pius	SR	RPA	1304 1/2 Mordecai Dr.	TE4-4548	538 Smith St., York, PA
Navarro, Bernardo Ienacio	FR	IE	3011 Leonard St.		Calle 58A #40-22, Medellin, Ant., Colombia
Needham, Ralph Christopher	FR	CE			Benvenue Rd., Rocky Mount, NC
Neener, James Michael	FR	GS	Bx 4634	TE2-9367	11 Field Ct., Poughkeepsie, NY
Neese, Michael Vernon	FR	AMA	102 Syme Bx 3502	832-9288	Rt. 7 Box 294, Greensboro, NC
Neighbors, Dalma Keith	JR	MED	819B Daniels St.	TE3-7145	401 W. Main St., Benson, NC
Nelson, Douglas Mark	FR	NE	204 Owen Bx 4461	TE2-9410	Box 22, Pinetown, NC
Nelson, Larry William	UN	GS	307D Bragaw Bx 15115		Rt. 4 Box 604, Lenoir, NC
Nelson, Lewis Henry	SR	AMA	Bx 15224		48 Anderegg Dr., Rome, NY
Nelson, Melvin, Jr.	JR	CEC	113 Turlington Bx 4210	834-9279	Rt. 3, Sanford, NC
Nelson, Ralph Arreluis	SO	ME	412D Bragaw Bx 15180		4232 Robertson Dr., Winston-Salem, NC
Nelson, Ralph Melvin	GR	WT	308 Horne St.	TE2-7050	3 Waverly Rd., Asheville, NC
Nelson, Thomas Spencer	FR	MEA	331 Tucker Bx 4762	TE2-9323	414 Janie St., Kannapolis, NC
Nemeth, Edward Joseph	DR	CHE	2509 Glenwood Ave.	TE2-7486	621 Ninth St., Glassport, PA
Nemmers, Raymond Francis	SR	IE	510 Harding St.	TE2-8239	510 Harding St., Raleigh, NC
Nemmers, Robert Stanley	SR	MED	510 Harding St.	TE2-8239	510 Harding St., Raleigh, NC
Nesbitt, Breece Caldwell, Jr.	FR	MEA	161 Tucker Bx 4668		Box 685, Elizabethtown, NC
Nesbitt, William Howard	JR	ASW	1718 Hillsboro St.	VA8-4464	36 Alexander Rd., Weaverville, NC
Nettleton, Wiley Dennis	GR	SOI	1022 W. South St.	TE4-0508	Rt. 3, Olney, ILL
Neville, Whit Nelson, Jr.	FR	ME	64 Tucker Bx 4814	TE2-9186	Rt. 1, Littleton, NC
Nevens, Jon Lion	MR	AGC	3306 Briarcliff Rd.	TE4-1604	1922 N. Monroe, Little Rock, ARK
Newbern, John Melvin	FR	AGI	314 Watauga Bx 3050	TE2-9132	Powells Point, NC
Newell, James Robert	SO	EE	127 Becton Bx 3727	TE2-9256	1100 Hargrove St., Rocky Mount, NC
Newell, Tyra Lee	FR	TYT	303 Berry Bx 4323		1401 Harrington Rd., Elizabeth City, NC
Newland, David Hale	FR	NE	10 Becton Bx 3812	TE2-9261	2403 Pincroft Rd., Greensboro, NC
Newland, Russell Leroy	JR	NE	916 Greenwich St.	TE3-6694	916 Greenwich St., Raleigh, NC
Newlin, John Wilbur, III	FR	PY	208 Owen Bx 4465	TE2-9410	1803 Woodland Ave., Burlington, NC
Newlin, Kimmey Dayton	FR	EE	328 Owen Bx 4463	TE2-9300	Rt. 2, Liberty, NC
Newlin, Marvin Boyd	FR	AED	Bx 4475	832-9410	Rt. 2, Hebane, NC
Newlin, Wilbur Andrews	FR	AGI	220 Owen Bx 4475	TE2-9410	RFD 2, Hebane, NC
Newman, Harry Thomas	FR	CEC	2621 Oberlin Rd.	TE4-8952	2621 Oberlin Rd., Raleigh, NC
Newman, Sidney Onyx, Jr.	FR	ME	2621 Oberlin Rd.	TE4-8952	2621 Oberlin Rd., Raleigh, NC
Newsom, James Long, Jr.	JR	ARC	213 Alumni Bldg.	TE2-9322	3843 Somerset Dr., Durham, NC
Newsom, Major Charles	SO	ME	412D Bragaw Bx 15386	TE4-9754	215 Walter Ave., Roanoke Rapids, NC
Newsome, James Ronald	SO	ME	413D Bragaw		4335 Reidsville Rd., Winston-Salem, NC
Newton, Donald A.	FR	ASE	316 Watauga Bx 3052	TE2-9132	Rt. 1 Box 183, Vale, NC
Newton, Harold Tarbrough	FR	CE	147 Owen Bx 4036	TE2-9252	Hurdle Mills, Roxboro, NC
Newton, Henry Clark, Jr.	SO	AT	325C Bragaw Bx 15151	TE4-9179	Rt. 1, Wagram, NC
Newton, Ira Brantley	FR	CE			Rt. 1, Knightdale, NC
Newton, William McKay	FR	MEA	2226 Hillsboro St.	TE2-2584	Box 175, Parkton, NC
Nguyen, Long Vo	SR	PY	210 Alumni Bldg.	TE2-9322	49 Phan thank Gian, Saigon, Vietnam
Nicely, Kenneth Aubrey			706 Powell Dr.		Slab Fork, W. VA.
Nichols, Larry O'Neil	SO	CEC			Box 1038, Cramerton, NC
Nichols, Lanny Glenn	SR	EE	3511 Andrew Ln.	TE4-7984	3511 Andrews Lane, Raleigh, NC
Nichols, Mark Level	FR	EE	238 Tucker		30 Westover Rd., Newport News, VA
Nichols, Marvin Lynn	FR	ASW	129 Tucker Bx 4640	TE2-9367	109 Woodlawn Rd., High Point, NC
Nichols, Ronald Augustus	JR	ABA	407 Bickett Blvd.	TE3-4551	407 Bickett Blvd., Raleigh, NC
Nicholson, Brock McFall	SO	ME	210 Faircloth St.	TE3-8457	210 Faircloth St., Raleigh, NC
Nicholson, Cheyney Anglin	JR	IE	3112 Eton Rd.	TE3-4102	3112 Eton Rd., Raleigh, NC
Nielsen, Chris Eugene	FR	FOR	315 Becton	TE2-9372	Rt. 5 Box 111, Vienna, VA
Nifong, Norman Lee	SO	ABD	1718 Hillsboro St.	VA8-4464	RFD 4, Winston-Salem, NC
Nijhuis, Rolf	JR	EE	13 Syme Bx 3609		402 Ragsdale Rd., Jamestown, NC
Nio, Oey Klaus	SR	TYT	2305 Clark Ave.	828-2683	8 Timor St., Djakarta, JAVA, INDO.
Nirmel, Chittaranjan Narandas	GR	ME	201 Syme	TE2-9150	36 Gr. Cumberland Pl., London, W.I.
Niven, Edwin	SO	CE	106 Gold Bx 3206		1117 Bragg St., Monroe, NC
Nixon, Edward Lee	SO	AGI	141 Tucker Bx 4651		Rt. 2, Hertford, NC
Nobles, Jim Tucker	SO	AED	1718 Hillsboro St.	VA8-4464	Rt. 1, Dover, NC
Noell, Godwin Leroy	SR	ME	B-25 MSH		E-25 MSH, NCSC, Raleigh, NC
Noell, Paul M.	SR	ASR	621 W. Aycock St.	TE2-5919	310 W. Markham Ave., Durham, NC
Noggle, Charles Ervin, Jr.	FR	RPA	247 Owen Bx 4498	TE2-9410	900 Blanton St., Shelby, NC
Noles, James Russell	MR	ME	320 Bidney Dr.		320 Bidney Dr., Burlington, NC
Noles, William Lee, Jr.	SO	CEC	Bx 15275	TE4-9123	Rt. 4 Box 520, Salisbury, NC
Nordan, John McLean	SO	EE	322B Bragaw Bx 15352		15 Tribune St., Concord, NC
Nordan, Phillip Thomas	SR	TC	1341 Chester Rd.	TE4-7112	RFD 1, Benson, NC
Nordan, Theodore Paul	JR	ARC	223A Bragaw		1300 Queen's Rd. W., Charlotte, NC
Norman, Gerry Joe	FR	TYT	116 Tucker		1223 Park Ave., Salisbury, NC
Norman, Harold Dean	SO	MEA	Bx 15327	TE2-9453	Rt. 11 Box 566c, Charlotte, NC
Norman, Sara Elizabeth	JR	AMA	8 Maiden Lane	TE4-5089	404 Forrest St., Greensboro, NC
Norman, William Phillip	SO	MEA	329 Turlington Bx 4291	TE2-9192	2940 Rozzelle Ferry Rd., Charlotte, NC
Norris, Johnny Wayne	FR	MEA	Bx 3002	TE2-9447	2226-4th St. N.E., Hickory, NC
Norris, Michael Reid	SO	CEC			2843 Carolina Beach Rd., Wilmington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Osborne, William Jeffrey	JR	NE	Q-210 MSH		Rt. 1, Summerfield, NC
Osburn, Donald Dean	GR	AGE	Rt. 1, Cary	TE4-3703	Rt. 1, Cary, NC
Otaduy, Fernando	UN		16 Herne St.		Jose Ingenieros 1469, Buenos Aires, Argentina
Outlaw, William Frederick			141 Tucker Bx 4651		Rt. 1 Box 370, Mt. Olive, NC
Outterbridge, Stephen Wilson	SR	ASH	202 Groveland Ave.		318 5th Ave., Hendersonville, NC
Overby, Rufus Donald	SR	ASW	203A Bragaw		Box 95, Muncure, NC
Overcash, Clyde Stephen	FR	TKT	1 Stadium Bx 4346		111 Vance St., China Grove, NC
Overcash, Herman Alexander, Jr.	JR	ME	216 Turlington	TE2-9297	Rt. 11 Box 75, Charlotte, NC
Overcash, Michael Ray	FR	CHS	206 Owen	TE2-9410	4 Chipmunk Lane, Media, PA
Overcash, Oscar Lee	JR	IA	52 Owen Bx 4586	TE2-9142	Rt. 2, China Grove, NC
Overcash, Walter Lee, III	FR	EE	336 Owen Bx 4550	834-9836	639 Melbourne Ct., Charlotte, NC
Overcash, Walter Stephen	FR	ME	256 Owen Bx 4507		4 Dogwood Rd., Salisbury, NC
Overman, Bruce Howland, Jr.	JR	CSC	103 Gold		119 McIver, Greensboro, NC
Overton, Arthur Wayne	FR	ME	256 Tucker	TE2-9387	Eure, NC
Overton, William Thompson	SR	CH	Bx 15036	TE2-9129	Box 420B, Rt. 2, Oxford, NC
Owen, Richard Milton	JR	ME	119 Owen		111 Brewery Rd., New City, NY
Owenby, Furman Douglas	JR	PPT	Bx 4207	TE4-9279	Star Rt., Black Mtn., NC
Owens, Buddy Ray	JR	MEA	407 Gardner St.	828-7604	Box 467 Rt. 1, Marion, NC
Owens, James Robert	SO	CHS	424A Bragaw Bx 1540B		Rt. 1 Box 442, Rocky Mount, NC
Owens, Jasper Glen	ME	RPA	306 Fourth Bx 3132	TE2-9159	Rt. 1 Box 71, Merganton, NC
Owens, John Graham	FR	IE	307A Bragaw		322 W. Elm St., Graham, NC
Owens, Michael Higdon	SO	CE			68 Dills Cove, Sylva, NC
Owens, Napoleon Jerome, Jr.	JR	IA	2912 O'Berry St.	832-4590	2509 Toddville Rd., Charlotte, NC
Owens, Robert Louis	FR	EE	302 Welch		2617 Springwood Dr., Greensboro, NC
Owings, Charles Wells, Jr.	JR	EE	211 Hawthorne Rd.	VAB-9143	2202 Granville Rd., Greensboro, NC
Ozbun, Jim L.	GR	SOI	811 Tower St.	832-471	811 Tower St., Raleigh, NC
Ozgur, Necati	SR	TKT	Bx 5764		Turan Mah 59 Suk. No. 96, Naizilli, Turkey
Padgett, Hugh Anthony	JR	TC	4205 Western Blvd.	832-6170	422 Arlington St., Forest City, NC
Page, Earle Lester	SO	CE	210 Dry Ave. Cary		Rt. 2, Rockingham, NC
Page, Edwin Perry	JR	ME	1208 College Pl.		Rt. 1, Morrisville, NC
Page, Frederick Carlisle, III	UN	GS	2612 Clark Ave.	TE2-9484	105 Westever Dr., Elkin, NC
Page, James Festus	SR	POM	2802 Hillsboro St.	TE2-0916	200 E. College St., Black Mtn., NC
Page, Jerry Marion	MR	AGE	1425 Curfman St.		RFD 1, Owesee, SC
Page, Jimmie Allen	SO	NE	4 Becton Bx 2806	832-9261	Rt. 3 Box 119-D, Tarboro, NC
Page, Kenneth Irving	FR	PY	218 Watauga	TE2-9132	203 W. 18th St., Lumberton, NC
Pahl, Edward Howard	SR	IA	124 Alexander Bx 4119	TE2-9257	Rt. 2 Box 169, Autryville, NC
Pai, Panemanga Subraya	MR	TC	Bx 5815		Panemangalore, Mysore St., INDIA
Painter, George Robert	JR	EE	1508 Greenwood Dr.	TE4-8200	111 Cranberry St., Plymouth, NC
Painter, Roby Stephen	JR	AMA	103 Owen Bx 4402	TE2-9437	Banner Elk, NC
Pais, Agustin	ME	ME	17 Enterprise St.	TE4-6510	San Carlos 28, Sige, de Cuba, Cuba
Pait, James Edwin	JR	CE	Bx 5667	TE4-9378	Box 1, Huntersville, NC
Pakula, Hal H.	SR	ASZ		TE3-2040	713 E. Franklin St., Raleigh, NC
Palmer, James Edward	JR	TKT	308 Horne St.	TK2-7050	172 Bidwell St., Franklin, NC
Palmer, Russell Neal, Jr.	JR	ME			1423 Richardson Dr., Reidsville, NC
Palmer, Thomas White	FR	A	114 Becton Bx 3714	TE2-9256	1244 Hayward Ave., Cincinnati 26, OH
Palmer, William M.	GR	ASC	2713 1/2 Vanderbilt		2713 1/2 Vanderbilt Ave., Raleigh, NC
Paoletti, Richard Lee	SO	AKC	203 Welch Bx 3251	TE2-9119	4034 Marlane Dr., Toledo, OHIO
Papadeas, Michael Apotolos	MR	EE			Box 614, Erwin, NC
Paquin, John Richard	FR	FOR	Bx 4701	TE2-9387	512 Shenandoah Rd., Alexandria, VA
Paramore, William Tetterton	FR	CE	322 Becton Bx 3790	TE2-9372	221 Hudnell St., Washington, NC
Pardue, Garland Bunnis	SR	ASW	Box 71, Cary		Box 584, Elkin, NC
Pardue, Robert Ancil	SO	EE	103 Chamberlain St.		1616 Elizabeth Ave., Winston-Salem, NC
Parekh, Rameshcha Jethalal	MR	ME	205 Ashe Ave.		Rawal Bldg., Bombay 77, India
Parham, Russell Aver	SO	WT	1628 Lorraine Rd.	TE4-5417	1628 Lorraine Rd., Raleigh, NC
Parham, Thomas Irvin	JR	TC	421B Bragaw Bx 15195		1420 Wiltshire, High Point, NC
Parham, William Clyde	SO	PPT	133 Turlington Bx 4228		Latta St., Latta, SC
Parie, Bernie Louise	FR	ASH	210 Groveland Ave.	832-5021	Rt. 2, Graham, NC
Parish, William Joseph	SO	IATO	2512 Clark Ave.		2307 Westfield Ave., Winston-Salem, NC
Park, Donald Michael	JR	EE	1237 Beacon Lake Dr.	TE4-9606	1237 Beacon Lake Dr., Raleigh, NC
Park, John Neely	SO	ME	404B Bragaw		607 Rockingham Rd., Rockingham, NC
Parker, Alex M.	FR	PD	2304 Hales St.	TE3-2090	2304 Hales St., Raleigh, NC
Parker, Anne Marie	SO	ATO	1535 N. Blount St.	TE2-1371	1535 N. Blount St., Raleigh, NC
Parker, Billy C	JR	CHC	927 Towner St.	VAB-9533	Asheville, NC
Parker, David Michael	JR	MEH	253 Tucker	TE2-9387	Kill Devil Hills, NC
Parker, Donald Carroll	JR	ATH	502 Cutler St.	VAB-7012	Rt. 1, Brevard, NC
Parker, Douglas Creech	JR	EE	314A Bragaw Bx 15334		710 Candlewood Dr., Kinston, NC
Parker, Earl Franklin, Jr.	FR	AKD			Rt. 1, Pittsboro, NC
Parker, Gerald Gordon, Jr.	JR	CE	2448 Wade Ave.	832-1859	2448 Wade Ave., Raleigh, NC
Parker, George Bruce	SO	ENG	2209 1/2 Hope St.	TE4-3244	2021 Wickersham Rd., Charlotte, NC
Parker, Harry Hilborn	SO	EE	2509 Glenwood Ave.	TE3-7486	805 King St., Winton, NC

AME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
arker, Homer Vann, III	FR	PPT	205 Bagwell Bx 3337	832-9131	Box 6, Gatesville, NC
arker, James Stafford	SO	IE	3311 Clark Ave.	832-1664	1814 Friendly Rd., Greensboro, NC
arker, Jessie Edwin	GR	CER	2458 Wade Ave.	VAB-6943	2458 Wade Ave., Raleigh, NC
arker, Morris Edward	JR	ARC	106 Asne Ave.	833-8747	1017 Ewing Blvd., Murfreesboro, TENN
arker, Raymond Wilson, Jr.	JR	NE	Becton Bx 3817	TE2-9261	1606 Branch St., Rocky Mount, NC
arker, Richard Howard, Jr.	JR	MTE	2228 Wake Forest Rd.	828-9939	2228 Wake Forest Rd., Raleigh, NC
arker, Richard Percy	FR	ATE	315 Alexander Bx 4178	TE2-9349	Pollocksville, NC
arker, Robert Corbett	JR	TC	1042 Bragaw Bx 15216	832-9180	Rt. 1, Bunnlevel, NC
arker, Ronald Leslie	FR	FOM	125 Owen Bx 4426	832-9115	Gates, NC
arker, Samuel Max	SR	AED			Rt. 1, Mt. Ulla, NC
arker, Steven Jeffrey	FR	MED	220 Becton Bx 3754		1422 N. Duke St., Durham, NC
arkaret, Robert Edwin	SR	CHE	202C Bragaw Bx 15261	TE4-9123	1820 N. College Ave., Newton, NC
arks, Charles Evans	MR	APY	2303 Yancey St.	TE2-3563	2303 Yancey St., Raleigh, NC
arks, Clifford Robert	DR	GN	123 Daley St.		519 Liberty St., Elmira, NY
arks, David James			2310 Hillsboro St.	828-5093	Rt. 1, Union Grove, NC
arks, Weston Curtis	SR	IE	222C Bragaw		605 E. Council St., Salisbury, NC
arks, John Felix, Jr.	SR	PQM	5 Dixie Trail		Rt. 1 Box 266, Lenoir, NC
arks, James Franklin	GK	ABC	447 1/2 Rose Lane	834-3356	Smith St., Timmonsville, SC
arriah, Charles Arthus	FR	ASE	Bx 4752	TE2-9303	Rt. 1, Stem, NC
arriah, James Lindberg	SO	TXT	338 Alexander Bx 4198		Box 94, Bladenboro, NC
arks, John Thomas	JR	ME	102 Logan Ct.		311 Spruce St., Sanford, NC
arks, Robert Henderson	UN	A	Rt. 1, Cary	834-0923	Rt. 1 Box 144, Cary, NC
Parsons, Ralph Dale	SO	IE	135 Owen Bx 4429	TE2-9115	312 North Bypass, Lenoir, NC
Parsons, Susan Ann	SO	RPA	17 Bagwell Ave.	833-4419	Kerlee Heights, Black Mtn., NC
Partin, Burke Fred, Jr.	JR	NE	4104 Reavis Rd.	TE2-0117	4104 Reavis Rd., Raleigh, NC
Partin, Cleveland Allen	GR				Box 47, Siler City, NC
Partin, John Sidney	FR	A	14 Stadium Bx 4359		Rt. 1, Box 353, Enfield, NC
Partin, Maurice Wilson, Jr.	SR	EE	201C Bragaw Bx 15051	TE2-9185	601 E. Highland Ave., Kinston, NC
Partin, John Thomas	FR	GS	821 Jones Ave.	TE3-4598	821 Jones Ave., Raleigh, NC
Partington, James	FR	CH	18 Turner St.	834-3517	1311 Myrtle Ave., Charlotte, NC
Partin, Edgar Lawson	FR	IE	265 Owen Bx 4516	TE2-9410	Box 44, Gilkey, NC
Parvin, James Robert	FR	CHE	254 Owen Bx 4505	832-9252	706 E. Harper Ave., Lenoir, NC
Paschal, Charles Ray	SR	MTE	2601 Clark Ave.	TE2-8631	1151 S. Hawthorne Rd., Winston-Salem, NC
Paschall, Richard Carlton, Jr.	SO	EE	302B Bragaw Bx 15311	TE4-4545	215 Fenton Pl., Jacksonville, NC
Paschall, Robert Larry	SO	CE	207C Farm Ave.		2416 Pickett Rd., Durham, NC
Pasour, Henry Alvin	FR	AED	24 Becton Bx 3825	832-9261	Rt. 1, Dallas, NC
Pate, George Angus	OI	AGI	67 Tucker Bx 4816		Box 366, Rowland, NC
Pate, Thomas Rankin	SO	MSA	208B Bragaw		729 N. Kimbrough St., Raleigh, NC
Patterson, Robert					Satharavad, Navli, India
Patel, Pravin Dabhyabhai	UN	TXT	Bx 5788		172 Ghashiram's St., Ahmedabad 1, Gujarat, India
Patterson, Wallace Hall	SR	ARC	303 Fourth Bx 3129	TE7-3807	Rt. 4 Box 409, Matthews, NC
Paton, James Jerry	FR	MSA	117 Bagwell Bx 3317		4315 Waterbury Dr., Charlotte, NC
Paton, Ronald Harry	JR	WT	303 Bagwell		32 Union St., Sodas, NY
Patrick, David Malcolm	SR	EE	2406 O'Berry St.	TE2-6755	1211 Florida St., Greensboro, NC
Patrick, Henry Wilson	FR	IE	421C Bragaw Bx 15196	TE4-9757	423 Highland St., Mt. Holly, NC
Patrick, Jerry Hamilton			Rt. 1, Raleigh	TE2-5741	Rt. 1, Box 303A, Raleigh, NC
Patterson, Donald Medford	SO	IEL	305 Tucker		110 S. Audubon Blvd., Wilmington, NC
Patterson, James Rozell	FR	ABA	423A Bragaw Bx 15198		Box 33, Manners, NC
Patterson, Robert Preston	MR	SSC	P-206 McKimmon Vill.	828-2385	127 32nd Ave. N.W., Hickory, NC
Paul, James Erving, Jr.	SC	EE	418C Bragaw		513 New St., New Bern, NC
Paul, John Robert	GR	ABC	Rt. 4		2312 Fernwood, Lansing, MICH
Pavagadhi, Lalji Jay			P-308 MSH		P-308 MSH, NCSC, Raleigh, NC
Payne, Dorce Howard, Jr.	JR	IE	1702 Hillsboro St.	832-8406	Rt. 1, Bessemer City, NC
Payne, Norman Taylor, Jr.	SO	IE	312A Bragaw Bx 15330	TE4-9253	1026 Pennyson Dr., Charlotte, NC
Payne, Richard S., Jr.	JR	AMA	225 Becton Bx 3759	TE2-9334	340 Montrose Ave., Essex 21, MD
Payne, Robert Barrett	GR	EE	Mendenhall Trailer Ct.		733 E. Sprague St., Winston-Salem, NC
Payne, Thomas Seager			17 Glenwood Ave.		Rt. 3, Lexington, NC
Peabody, William Rossiter	JR	IE	3414 Hillsboro St.	TE3-1085	900 Lake Boone Trail, Raleigh, NC
Peacher, Benjamin Franklin, Jr.	GR	IE			102 Dolly Madison Rd., Greensboro, NC
Peacock, Joseph Thomas, Jr.	SK	IE	316 Bagwell Bx 3382	TE4-9151	Box 297, Fremont, NC
Peacock, Roy Herritt					Yost Rd., Weaverville, NC
Peacock, Vincent Gerard	SO	IE	210 Watauga Bx 3028		414 N. Reid St., Wilson, NC
Peacock, William A. J., III	FR	TA	207 Turlington Bx 4237	TE2-9297	Denada Dr., Sanford, NC
Pearce, Benny Morris	SR	MED	3 Syme	TE2-9334	307 N. 4th St., St. Pauls, NC
Pearce, Howard D.	GS		407 Brooks Ave.	828-8085	1500 S. Lee St., Orlando, FLA
Pearce, Robert Leonard	FR	AGI			Rt. 2, Wake Forest, NC
Pearson, James Leslie	GR	AGC	1006 Tower St.	828-8183	1006 Tower St., Raleigh, NC
Pearson, John William	SO	IE	Box 314, Apex		317 Center St., Apex, NC
Pearson, Kenneth Covington	SR	FOM	103 Chamberlain		106 S. Claiborne St., Goldsboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Pearson, Ronald Edwin	FR	LE	19 Stadium		215 Banks Ave., Goldsboro, NC
Pearson, Thomas Deal	SO	MM	Gold Bx 3202	TE2-9263	302 E. Main St., Wilkesboro, NC
Peedin, Gerald Franklin	JR	AEI			RFB 3, Selma, NC
Peedin, James Franklin	SO	NE			802 N. Raeford St., Selma, NC
Peeler, David Lawrence	SR	WT	5839 Fayetteville Rd.		303 Park Ave., Plymouth, NC
Peeler, Charles Van Buren	GR	AMA	11 Enterprise St.	TE2-5669	Rt. 6, Goldsboro, NC
Peeler, Donald Gene	SO	ME	215 Tucker Bx 4686	TE4-9828	Rt. 1 Box 64, Stokes, NC
Peeler, Norman Richard	UN	GS	H-15 McKimmon Vill.	TE4-5442	411 W. I St., Erwin, NC
Peeler, Donald Hoover	SR	PD	132 Woodburn Rd.		Rt. 1, Lincolnton, NC
Peeler, Gilbert Wayne	SO	EE	301 Becton	TE2-9372	1482 Carolyn Dr., Charlotte, NC
Peeler, Ralph James, Jr.	GR	AGC	3513 Leonard St.	TE4-5594	3513 Leonard St., Raleigh, NC
Peeples, Clarence Leon	FR	ME	5 Stadium Bx 4350		Rt. 4 Box 176, Kernersville, NC
Peer, Gerard Walter	SO	AKC	304 Berry		2711 Camden Rd., Greensboro, NC
Pegram, James Darrell	FR	ARC	P-108 McKimmon Vill.		1612 W. Davis, Burlington, NC
Pegram, Troy Louis			I-14 McKimmon Vill.		I-14 McKimmon Vill., Raleigh, NC
Pegues, Rufus James			Hillsboro YMCA	TE2-6601	Rt. 4, Bennettsville, SC
Peiffer, Peter Wells	SO	TAT	2232 Hillsboro St.	TE3-8716	64 Wopner Terrace, Rochester, NY
Pelt, Julius Grey	FR	EE	106 Watauga Bx 3006	TE2-9447	801 E. Mulberry St., Goldsboro, NC
Pembie, George Gifford	SO	PPT	Bx 15322		Box 134, Walden, NY
Pender, Roy Hughes	FR	ARC	2244 Circle Dr.	TE2-5152	2244 Circle Dr., Raleigh, NC
Penland, Robert Tideman	SO	MEA	149 Tucker Bx 4656	TE2-9367	244 South St., Davidson, NC
Penley, Joe Harrison, III	SO	TAT	Bx 15105		Rt. 1 Box 716, Salisbury, NC
Penney, George Albert	FR	FOR	Tucker Bx 4775	TE2-9323	19319 Gary Rd., Potomac, MD
Penniger, Chester Bernard	SO	GS	3414 Hillsboro St.	VAB-9181	1420 Woodhill Lane, Charlotte, NC
Penninger, Glenn Franklin			Bx 4626	TE2-9362	Rt. 7, Lexington, NC
Pennington, Eddie Ross	SR	IATO	2709 Newbold St.		320 Clifton Rd., Rocky Mount, NC
Pennysile, Ronald Owen	SR	CHE	2807 Lewis Farm Rd.	828-8566	2807 Lewis Farm Rd., Raleigh, NC
Perry, Oliver Cromwell	SO	AMA	303 Watauga Bx 3039		1813 Weaver St., Raleigh, NC
Perrins, Joseph Fenner	SR	ME	3404 Cheyenne Rd.		Warrenton, NC
Pardue, Maurice James	SO	CH	1321 Dale St.	TE4-5500	1321 Dale St., Raleigh, NC
Perkins, Donald Frankiya	JR	ASR	Bx 3208	TE2-9263	
Perkins, George Robert	SR	TAT	1710 Hillsboro St.	TE4-2001	Rt. 2, Roxboro, NC
Perkins, Jackie Lee	DR	ANS	I-15 McKimmon Vill.	828-4671	Gassaway, W.VA.
Perkins, Jerry Cecil	SR	CE	Bx 15254	TE2-9180	Rt. 6, Sanford, NC
Perkins, Lewis Henry, Jr.	JR	CE	633 Cannon St.		Gatesville, NC
Perkinson, Frank Dixon, Jr.	SO	ASE	Bx 3506	TE2-9288	Box 55, Wise, NC
Perkinson, Richard Thomas	SR	AMA	203C Bragaw Bx 15055		338 Jefferson St., Roanoke Rapids, NC
Perrin, John Franklin	SR	CE	331 Alexander		1606 Cobb St., Greensboro, NC
Perron, Albert Francis, Jr.	SO	TXT	322 Turlington Bx 4284	TE2-9192	West End Dr., Valdese, NC
Perry, Clifford Branswell	SR	ME	1720 Hillsboro St.	VAB-9200	1 Cornwallis Rd., Chapel Hill, NC
Perry, David Ladd	FR	ME	Bx 4260	TE2-9297	115 Rolling Rd., Burlington, NC
Perry, Donald Davis	SO	EE	308C Bragaw Bx 15324		611 Jefferson St., Hamlet, NC
Perry, Geoffrey Reid	JR	PY	424B Bragaw Bx 15409		Box 644, Hickory, NC
Perry, Hilton Boyd	JO	MEA	209 Becton Bx 3743	TE2-9334	1502 Randolph Ave., Greensboro, NC
Perry, Jesse Belmont	SR	ME	E-24 MSH	VAB-3049	Rt. 1 Box 252, Hertford, NC
Perry, Jimmy Walter	FR	ASE	136 Tucker	TE2-9388	Rt. 4, Zebulon, NC
Perry, Joel Von	JR	EE	1900 Ridge Rd.	834-7631	1900 Ridge Rd., Raleigh, NC
Perry, Lloyd Thomas, Jr.	SO	MEA	2232 Hillsboro St.	TE3-8716	Rt. 1 Box 203, Merry Hill, NC
Perry, Lynn McIver	MR	AMA	134 Bagwell Ave.	834-2847	318 Weatherspoon, Sanford, NC
Perry, Paul Willard	GR	FOR	J-26 MSH	TE2-7536	212 Neadville St., Edinboro, PA
Perry, Ray Robert, Jr.	SO	ME	425A Bragaw		208 Ware St., Shelby, NC
Perry, Sonny Maxwell	FR	ATE	Bx 15339		Rt. 4, Zebulon, NC
Perry, Wesley Stewart	MR	MTE	3005 Leonard St.	TE4-7454	3005 Leonard St., Raleigh, NC
Perry, William Howard	SR	EE	426C Bragaw	TE4-2934	407 McArthur Rd., Fayetteville, NC
Perry, William Morris, Jr.	FR	EE	136 Turlington	834-9279	1307 Price Ave., Kannapolis, NC
Perryman, Kaye Frances	SR	TC	104 Pogue St.	TE3-2009	Rt. 8 Box 341, Lexington, NC
Persinger, James Ronald	FR	ME	301A Bragaw Bx 15100		615 Washington Ave., Ayden, NC
Pestel, Robert Friedrich	GR	PY	1507 Ambleside Dr.	834-6261	Wilh-Busch-Str. 8-10, Hannover, GERMANY
Pesto, William Steve	MR	EE	202 Jones-Franklin	828-8302	202 Jones-Franklin Rd., Raleigh, NC
Peters, Daniel Shelley	MR	ANS	Q-107 McKimmon Vill.	832-4905	8000 Johnson Dr., Shawnee-Mission, KAN
Petersen, Henry John	FR	ARC	Bx 4512	TE2-9252	Box 512, Elon College, NC
Petersen, Ralph Eugene	MR	AGC	K-14 McKimmon Vill.	834-2982	Danewang, TEXAS
Peterson, Reid Willis	SR	EE	321B Bragaw Bx 15142	TE4-9179	Box 697, Burnsville, NC
Petree, William Samuel		LA	Bx 5566		406 Crestline Dr., High Point, NC
Pettrone, Ralph Alexander		ROM	324 Turlington Bx 4286		55 Chestnut St., Rensselaer, NY
Pettis, Charles David	FR	ARC	217 Syne Bx 3549	TE2-9150	912 Kings Mill Rd., Chapel Hill, NC
Pettit, William Soper	FR	EE	2317 McMullan Cir.	834-1414	2317 McMullan Circle, Raleigh, NC
Petty, Harold Robert	SO	TXT	1508 Hillsboro St.	TE2-6153	111 Vance St., Sanford, NC
Peyman, Robert Charles	FR	EE	328 Owen Bx 4543	TE4-9300	317 Engleman Ave., Burlington, NC
Pharr, Frank Thomson	SO	ASE	309 Alexander Bx 4173	TE2-9349	1633 Charlotte Rd., Concord, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Pharr, Robert Springs	FR	ME	308 Bagwell	834-9151	522 Livingston Dr., Charlotte, NC
Pharr, Robert Springs	FR	ME	308 Bagwell	TE2-9367	249 Golf Rd., Plymouth, NC
Pharr, Robert Springs	FR	ME	308 Bagwell		216 Virginia Ave., W., Draper, NC
Pharr, Robert Springs	FR	ME	308 Bagwell	832-9192	8844 Waxford Rd., Richmond, VA
Phelps, Ronald Alan	FR	FR	301 Berry Bx 4321	TE2-9363	802 Kenmore Ave., Louisburg, NC
Phifer, Billy Jack, Jr.	FR	FR	2409 1/2 Everett Ave.	833-7987	402 S. Oleander, Goldsboro, NC
Phifer, Billy Jack, Jr.	FR	FR	4101 Picardy Dr.	828-9877	Box 263, Whiteville, NC
Philbrick, Charles Russell	UN	FR	4912 Western Blvd.	TE2-2427	201 Walnut St., Cary, NC
Phillips, Amos Warren	SO	FR	301 Bagwell Bx 4321		Box 2403, New Bern, NC
Phillips, Amos Warren	FR	AMA	2609 Crestline Ave.	833-2031	Rt. 3, Bakersville, NC
Phillips, Dewey Lee	SO	TXT	125 Owen Bx 4420	TE2-9115	501 Chapel St., China Grove, NC
Phillips, Dewey Lee	SR	CE	212 Owen Bx 4420	TE2-9263	Rt. 1 Box 15, Dallas, NC
Phillips, Dewey Lee	SO	FR	327 Bagwell		Rt. 2, West Jefferson, NC
Phillips, Frederick Gene	SO	ME	1114 Bragaw Bx 15337	TE2-9253	7914 Ardmore Rd., Norfolk, VA
Phillips, Grady Wade	SO	MEA	205B Bragaw Bx 15058	TE2-9185	Box 354, Beaufort, NC
Phillips, Howard Lee, Jr.	JR	ME	1411 McKimmon Vill.	TE2-9032	Box 297, Henric, NC
Phillips, James Blair	FR	ME	2211 Hope St.	TE2-7218	410 Bridge St., Bridgeton, NC
Phillips, James Davis	SO	ME	908 Canterbury Rd.	TE2-2508	2205 Woughton St., Winston-Salem, NC
Phillips, Larry Steve	JR	ME	Box 14061	828-8182	Rt. 1, Hickory, NC
Phillips, Maurice Benfield	JR	CE	1608 Benehan St.	838-5504	Box 230, N. Wilkesboro, NC
Phillips, Michael Wilborn	SO	CE	261 Owen Bx 4512	TE2-9252	Box 144, Elon College, NC
Phillips, Monroe Holland, Jr.	SO	ME	261 Owen Bx 4512		617 Radium St., Burlington, NC
Phillips, Raymond Douglas	JR	ASW	220 Alexander Bx 4149	TE2-9746	Box 197, Pine Level, NC
Phillips, Richard Buebee	JR	CE	156 Owen Bx 4447		2729 Webb St., Raleigh, NC
Phillips, Eugene	FR	GS	7 Stadium Bx 4352		Rt. 1, Mooresville, NC
Phillips, Eugene	FR	AS	4589	TE2-9237	Rt. 2 Box 370, Grafton, NC
Phillips, Robert Derrington	FR	AS	65 Tucker Bx 4815		RFD 1, Kenansville, NC
Phillips, Robert Derrington	FR	AS	105 Syme Bx 3505		Rt. 2, Zebulon, NC
Phillips, Stanley Orval	FR	AS	105 Syme Bx 3505		851 Knollwood St., Winston-Salem, NC
Phillips, Terry Nelson	FR	AS	105 Syme Bx 3505		1014 Knollwood St., Winston-Salem, NC
Phillips, Terry Nelson	FR	AS	5 Daisy St.		1014 Knollwood St., Winston-Salem, NC
Philyaw, Bobby Kenneth	JR	MEA	Q-316 McKimmon Vill.		Rt. 1 Box 73, Lenoir, NC
Phlegar, Barry Bartley	SO	MEA	Box 372, Cary	TE2-5117	Box 372 Rt. 1, Cary, NC
Piskal, Edmund John	FR	AMA	63 Owen Bx 4597	832-9142	Box 707, Kinston, NC
Picard, Jean Marc	UN	EST	K-12 MSH	828-4545	6581 3rd Ave. Rosemont, Montreal, Quebec, Canada
Pickard, Donald Sharpe	SO	FR	614C Glenbrook Dr.	TE2-1306	6114 Piedmont Ave., Winston-Salem, NC
Pickard, Faison Wellington	JR	FR	103 Chamberlain St.		Rt. 1 Box 596, Salisbury, NC
Pickering, George Henry	JR	FR	801C Daniels St.	832-8034	9171 Creekwood Dr., Mentor, OHIO
Pickett, James Troy	JR	FR	154 Tucker		1603 Cornwalls, Durham, NC
Pickett, Victor Aaron	FR	FR	105 Montgomery St.	TE2-6576	105 Montgomery St., Raleigh, NC
Pidal, Enrique	JR	ME	Bragaw Bx 15014		
Piening, Ludwig John	FR	FR	M-23 McKimmon Vill.	833-9110	Dalemead, Alberta, Canada
Pieranzunzi, Vito Paul	FR	E	263 Owen Bx 4514		5214 Seacort Rd., Charlotte, NC
Pierce, Blackwell Bennett	JR	AT			700 Washington, Weldon, NC
Pierce, John Henry	FR	AGE	124 E. Park Dr.		Rt. 2, West Jefferson, NC
Pierce, Joseph Samuel, Jr.	FR	CE	15 Maiden Lane		Rt. 4 Box 337, North Wilkesboro, NC
Pierce, Ronald Earl	FR	ME	5413 Fayetteville Rd.	TE2-1178	5413 Fayetteville Rd., Raleigh, NC
Pierson, Roy Philip	FR	ME	317 Owen Bx 4532	TE2-9300	308 Banbury Rd., Winston-Salem, NC
Pike, Joe Bill	SO	EE	126 Alexander Bx 4121	TE2-9257	1311 N. Main St., Mt. Airy, NC
Pike, Robert Clark	FR	ARC	291 Owen Bx 4558	TE2-9410	1131 Kenwood St., Winston-Salem, NC
Pilson, Paul Dave	FR	EE	317 Becton Bx 3785		Rt. 1, Cameron, NC
Pindell, Robert George	FR	FR	3138 Bragaw		2248 Colony Rd., Charlotte, NC
Pinkston, Charles Sidney, Jr.	JR	CEC	5242 Vann St.		109 Olive Rd., Fayetteville, NC
Pinkston, Frederick William, Jr.	SO	A	2514 Clark Ave.		127 West Bank St., Salisbury, NC
Pinnix, Cleveland Franklin	JR	CE	Bx 4628	TE2-9367	23 Emory Rd., Asheville, NC
Pinnix, James Calvin	JR	ME			4222 High Point Rd., Greensboro, NC
Pinto, Rafael A.	ME	SSC	1112 Parker St.	828-6040	Carabobo 96-73, Valencia, Venezuela
Pipkin, George Dennis	SR	AMA	Bx 5634	TE2-6153	120 W. Main St., Murfreesboro, NC
Pipkin, Robert Allen	JR	ME	Rt. 3	TE2-3294	Rt. 3, Raleigh, NC
Pipkin, Robert Allen	FR	GS	607 Mills St.	TE2-1427	607 Mills St., Raleigh, NC
Pippin, Calvin Collins	FR	PD	2308 Hales Rd.	TE2-8203	2308 Hales Rd., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Pleasants, Larry Wayne	FR	FOR	Rt. 1, Cary	HO7-9260	Rt. 1, Cary, NC
Plemons, Robert Carlton	JR	FWH	2504 Vanderbilt Ave.	828-5333	6013 Tuckaseegee Rd., Charlotte, NC
Plonk, David Torrence	SR	LE	Bx 5667	834-9378	906 Crescent Cir., Kings Mtn., NC
Plowman, Joseph David	ME	FOR	106 Horne St.	TE4-5608	Box 417, Troy, NC
Playler, Larry William	FR	TXT	328 Syme Bx 3592	TE2-9224	704 Marvin Rd., Wadesboro, NC
Poe, Donald Patrick	FR	AGE	163 Tucker Bx 4670	TE4-9828	1813 Forest Rd., Durham, NC
Poe, Henry Erwin	FR	EE	312 Syme Bx 3576	832-9222	Wallecliff Park, Thomasville, NC
Pohlkette, Robert Harold	SR	CE	1106 Faircloth St.	834-8384	1106 Faircloth St., Raleigh, NC
Polander, Richard Clinton	JR	ME	205A Bragaw Bx 15057	TE2-9185	Rt. 1 Box 90, East Bond, NC
Polander, William David, Jr.	FR	ME	50 Tucker Bx 4800	TE2-9237	425 Madison St., Roanoke Rapids, NC
Polster, William Wallace, Jr.	FW	E	307 Owen Bx 4524	TE4-9300	RFD 1, Semora, NC
Poisson, John Paul	BU	PY	3414 Hillsboro St.	VA8-9181	318 South 3rd St., Wilmington, NC
Polan, Earl Edwin			1508 Frank St.		Blandville, W.Va.
Pomerans, Franklin Glasgow	FW	TXT	Tucker Bx 4666	TE2-9367	548 N. Brookside Ave., Freeport, NY
Pomerans, Jacques Glasgow	JW	TXT	804 E. Park Dr.	TE2-7638	548 M. Brookside Ave., Freeport, NY
Pomcavage, Edward	FR	CE	728 Dennis Ave.	TE3-1929	728 Dennis Ave., Raleigh, NC
Ponge, Juan Antonio	FR	LE	116 Groveland Ave.	828-7087	116 Groveland Ave., Raleigh, NC
Poncelet, Claude Ghislain	DR	APT	430 Wayne Dr.	824-0841	430 Wayne Dr., Raleigh, NC
Ponder, Speers Gordon	MR	AGC	Rt. 1, Cary	467-1195	Greenwood Acres, Rt. 1, Cary, NC
Poele, Larry Clifton	FW	LE	219 Bagwell		3518 S. Alston, Durham, NC
Poele, William Gordon	JR	ME	Bagwell Bx 3318	TE4-9219	Box 252, Taylorsville, NC
Pope, Dwight Edward	JR	CEC	Bx 5566	TE2-9353	1520 Overbrook Rd., Burlington, NC
Pope, Guy Lloyd, Jr.	JR	EE	128 Tucker Bx 4639	TE2-9367	Box 312 Rt. 2, Franklin, VA
Pope, Hal Dennis	SO	ME		TE2-3901	135 Bryan Blvd., Havelock, NC
Pope, Jerry Alan	SR	EE	8 Perndell Lane	TE2-1755	RFD 3, Dunn, NC
Pope, Jimmie Ray	BU	CE	616-C Glenbrook Dr.	TE3-9067	616-C Glenbrook Dr., Raleigh, NC
Pope, John Haywood, Jr.	FR	ARC	2214 Shorelam St.		2214 Shorelam St., Durham, NC
Pope, Lloyd Melvin	JR	TC	3109 Hillsboro		Box 244, Norwood, NC
Pope, Michael Lloyd	JR	CHE	Bx 5667	834-9378	Rt. 8 Box 222A, Charlotte, NC
Pope, William Thurman	SO	ME	327 Turlington	TE2-9192	3009 Elgin St., Durham, NC
Pope, Winifred Joachim	JR	CE	345 Tucker Bx 4773	TE2-9323	109 S. McDaniel St., Enfield, NC
Poplin, Douglas Leon	FW	A	Bx 4730	TE2-9387	Rt. 1, Ronda, NC
Poplin, Jack Kenneth	DR	CE	2216 Garden Pl.	TE2-6123	Rt. 2, Norwood, NC
Poplin, Ronald Lloyd	SO	SED	2718 Clark Ave.	TE2-6451	302 Chapel St., China Grove, NC
Poplin, William Alexander	SO	ARC	2210 Hope St.		Deweese Ave., Rockingham, NC
Porteous, Catherine Plaisance	JR	ME	117 Cox Ave.	828-5831	1669 Forrest Ave., Memphis, TENN
Porter, Daniel Morris	GR	PP	2227 Noble Rd.	TE2-8514	Rt. 1, Newton Grove, NC
Porter, David	FW	AGI			Rt. 1, Newton Grove, NC
Porter, Elbert Nelson	FR	AGI			Rt. 1, Newton Grove, NC
Porter, Frank M.	GR	PP	2634 Kilgore Ave.		2634 Kilgore Ave., Raleigh, NC
Porter, George Zell	SO	LE	211C Bragaw		455 N. Victoria Pk. Rd., Ft. Lauderdale, FLA
Porter, Raymond Alvin	FR	AED	2226 Hillsboro St.		Rt. 1, Goldsboro, NC
Porter, Richard McLean	SO	CEC	2510 Clark Ave.	VA8-3942	Box 846, Elizabethtown, NC
Porter, Samuel Cole	FW	A	Bx 4499	832-9252	4628 Long Leaf Hills Dr., Wilmington, NC
Porterfield, Carl Howard	FR	CH	332 Syme Bx 3596		3028 Hope Valley, Durham, NC
Porterfield, Vernon Calvin	FW	ARC	218 Syme Bx 3550	832-9150	5255 Miami Blvd., Durham, NC
Portwood, Warren Thomas	SO	ASZ	3411 Leonard St.	TE4-7111	3411 Leonard St., Raleigh, NC
Posey, Clayton Eugene	GR	FOR	Owen	TE4-7807	416 S. Pickard, Norman, OKLA
Posey, Elbert Hamilton, Jr.	SC	ARC	Bx 5392		26 Lakewood Pky., Asheville, NC
Posey, James Campbell	SR	ARC	108 Welch Bx 3249	TE2-9119	530 Biltmore Ave., Asheville, NC
Poston, Kenneth Alexander	JR	AMA	1720 Hillsboro	VA8-9200	1101 Dresden Dr., Charlotte, NC
Poteat, James Lee	JR	TXT	Bx 4227	TE4-9279	Rt. 3 Box 284, N. Wilkesboro, NC
Poteat, Richard Wilson	SR	AGI	163 Owen Bx 4454		Rt. 1, Blanche, NC
Poteat, Leon Jay	SR	EE	101 Fourth Bx 3111	TE2-9159	Rt. 6 Box 681, Morganton, NC
Poteat, Wade Martin	SO	PY	14 1/2 S. Boylan Ave.		1909 Massey Cir., Se. Chan., W.Va.
Potter, James Thomson, Jr.	SR	TXT	2902 O'Berry St.	828-5069	2902 O'Berry St., Raleigh, NC
Potter, Lynwood Lee, Jr.	FR	GS	118 E. Park Dr.		17-B Nesbitt Cts., Wilmington, NC
Potter, Lynwood Savon	JO	CE	Bx 3271		210 Country Club Dr., New Bern, NC
Potts, Grimes Richard	JR	CE			Rt. 3 Box 265, Lexington, NC
Poultney, Arthur Norman	SO	CE	202 Gold	TE2-9263	189 Vermont Ave., Asheville, NC
Founders, Joseph Curtis, Jr.	SO	AMA	305 Bagwell Bx 3371	TE4-9151	506 Kings Rd., Shelby, NC
Fowe, Ann Stafford		GS	3436 Redbud Lane	VA8-3070	3436 Redbud Lane, Raleigh, NC
Fowe, Harry Lothrop	DR	AEC	3436 Redbud Lane	VA8-3070	3436 Redbud Lane, Raleigh, NC
Powell, Charles Baird, Jr.	FR	MEA	P-213 McKimmon Vill.		206 Sherwood Rd., Jacksonville, NC
Powell, David Melvin	FR	PD	1508 Frank St.		1508 Frank St., Raleigh, NC
Powell, Douglas Spurgeon	UN	GS	2046 Wake Forest Rd.	TE2-9907	2046 Wake Forest Rd., Raleigh, NC
Powell, Edgar Ernest	SO	EE	119 Becton	TE2-9256	Rt. 2, Clemmons, NC
Powell, Eugene Jackson	FR	MEA			2221 Chesterfield Ave., Charlotte, I
Powell, Harvey Bartlett, Jr.	JR	EE	224 Woodburn Rd.		5023 Allen Rd. E., Charlotte, NC
Powell, Ithie Hill	FR	ME			Box 326, Fittsboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Fowell, Jonathan Stokes, Jr.	SO	ABI	1710 Hillsboro St.	TE4-2001	Belmont St., Windsor, NC
Fowell, Lynn Lackey	FR	E	116 Owen	TE2-9437	211 West Bell, Statesville, NC
Fowell, Patrick Jennings	JR	RFA	130 Alexander		Rt. 2, Clyde, NC
Fowell, Robert Larendon	SO	AMA	Bx 4594		204 Pearson Dr., Asheville, NC
Fowell, Robert Hester	FR	AGI	214 Tucker Bx 4690	TE2-9387	Spring St., Fuquay Springs, NC
Fowell, Roger Dean	FR	AMA	Bx 3259	TE2-9119	Rt. 6 Bx 256, Shelby, NC
Fowell, Samuel Wright	SR	AMA	1235 Bragaw Bx 15042		2221 Chesterfield Ave., Charlotte, NC
Fowell, Steven Foster	JR	AMA	301 Welch	TE2-9119	Rt. 6 Bx 256, Shelby, NC
Fowell, William Eugene	SO	EE	222 Bagwell	TE2-9131	2202 Villa Dr., Greensboro, NC
Fowell, William Gene	SR	AMA	134 Bagwell	TE4-7436	Robersonville, NC
Power, Henry Johnson	UN	A	4616 Six Forks Rd.	833-8852	4616 Six Forks Rd., Raleigh, NC
Prager, Jeff Martin	SO	TXT	304 E. Park Dr.	TE2-7638	23 Derby Ave., Cedarhurst, NY
Prasa, Anco Luning	DR	WT	339 Riddick		C-5 Raleigh Apts., Raleigh, NC
Prater, Tom Earl	GR	AGE			College Station, TEXAS
Pratt, Franklin Pierce	FR	NE	349 Owen	TE4-9300	240 Richmond Rd., Salisbury, NC
Pratt, John Charles	FR	PY	224 Syme		206 N. Claiborne, Goldsboro, NC
Pratt, Michael Terry	SO	AGI	Bx 4043	TE2-9367	Rt. 1, Merry Hill, NC
Prescott, Jack Brinkley	JR	PPT	1216 Bragaw Bx 15039		Box 23, Lake Waccamaw, NC
Prescott, Wendell Ellsworth, Jr.	SR	IE	1720 Hillsboro St.	VA8-9200	Box 23, Lake Waccamaw, NC
Prescott, Wendell Ray	SO	EE	228 Alexander	TE4-9746	503 Pine St., Landis, NC
Preuss, Thomas Harrison	FR	ME	164 Owen	832-9115	704 Worley St., Monroe, NC
Prealar, Robert Allan	SO	MEA	219 Hawthorne Rd.	TE3-3093	472D Painter St., Norfolk, VA
Preasley, Robert Neil	SR	CE	125 Cox	833-7270	Box 92, Waynesville, NC
Presson, Eddie Lane	FR	ME	337 Tucker Bx 4767	TE2-9323	Rt. 3, Monroe, NC
Preuss, John Brock	GR	CH	Rt. 6 Box 104N	828-5126	Rt. 6 Box 104N, Raleigh, NC
Preussel, Willard George, Jr.	SO	EE	148 Owen Bx 4439	TE2-9437	2202 Ardsley St., Winston-Salem, NC
Prevatte, Donald Carroll	SO	ME	211C Bragaw		215 W. 16th St., Lumberton, NC
Price, Arthur Lane	FR	MEA	304 Owen		2004 Brice St., Greensboro, NC
Price, Bruce Morris	FR	PU	203 Bagwell Bx 3335	832-9131	2231 Meadow Wood Rd., Fayetteville, NC
Price, Charles Russ	SO	IA	112B Bragaw Bx 15232	TE2-9180	202 Pelham St., Selma, NC
Price, John Ray	FR	MEA	101 Watauga Bx 3001	832-9447	5. Center St., Selma, NC
Price, Howard Irving, II	FR	LA	Bx 3041	TE2-9132	408 W. Bell St., Statesville, NC
Price, Jan Ball	SR	MEU	Gold Bx 3221		Rt. 1, Dudley, NC
Price, Lois Faye	SR	RFA			Bx 504, Rolesville, NC
Price, Ronald Frederick	SR	IATO	A-23 MSH	VA8-5081	2004 Brice St., Greensboro, NC
Price, William Hewitson, Jr.	JR	AMA	2330 Knowles	TE2-4919	431 N. Patrick St., Leaksville, NC
Price, William John	SO	ASV	143 Owen Bx 4436		3406 Yancey Villa Rd., Greensboro, NC
Pridgen, Kenny Glendel	FR	NE			Rt. 2, Wendell, NC
Prince, Albert Earl	SO	EE	Bx 15149		2424 Shenandoah Ave., Durham, NC
Prince, Charles Chandler, Jr.	JR	PPT			Bx 31 Rt. 2, Statesville, NC
Prince, James Randolph	FR	MEA	65 Tucker Bx 4815	TE2-9237	Box 122, Cerro Gordo, NC
Prince, Walter Ray	FR	AMS	Piney Plains Rd.	828-8519	Rt. 4 Piney Plains Rd., Raleigh, NC
Pringle, James Brinson	FR	EE	106 Ashe Ave.	834-0073	3026 Marlborough Rd., Charlotte, NC
Pritchard, Jerry Paul	JR	NE	241 Owen Bx 4495		Cordova, NC
Pritchard, John Stanley	SO	PPT	Bx 4747	TE2-9323	Rt. 1, West Point, VA
Pritchard, William Earl, Jr.	FR	FOK	2215 Bragaw Bx 15089		313 Allen Ave., Hopewell, VA
Pritchett, Thomas Willis	SO	ATG	304 Alexander Bx 4170	TE2-9349	Rt. 2, Elon College, NC
Privott, Wilbur Joseph, Jr.	DR	CHE	2803 Wade Ave.	TE2-7477	Rt. 1, Tyner, NC
Proctor, David Albert	SR	AMA	Bx 4624		220 Crest Dr., Hendersonville, NC
Proctor, James Allen	SR	AMA	212A Bragaw Bx 15279	828-7759	Rt. 1, Box 75, Vale, NC
Proctor, Thomas Gilmer	SR	AMA	2402 Clark Ave.	TE3-6434	2402 Clark Ave., Raleigh, NC
Propst, Alex Austin, Jr.	FR	TC	Bx 4543		1316 Colonial Dr. E., Salisbury, NC
Prosser, John	JR	NE	1076 Bragaw Bx 15015	TE2-9129	412 Baldwin Ave., Spencer, NC
Proveaux, Barbara Joan	SO	ASV	2208 Garden Pl.	832-7685	422 Champlain St., Hamlet, NC
Provo, Donald Lee	SR	MEU	713 Hamilton Rd.		713 Hamilton Rd., Raleigh, NC
Provo, James Wesley	SO	ASV	535 Hertford St.	TE2-1057	535 Hertford St., Raleigh, NC
Puckett, Jerry Thomas	JR	PPT	5 Syme Bx 3601	TE2-9421	16 Beryl Rd., Cheltenham, PA
Puckett, Ralph Keith	JR	MEA	212A Bragaw Bx 15342	TE4-9253	Rt. 4, Oxford, NC
Puckett, Walter Harry	SR	PPT	212A Bragaw Bx 15095	TE2-9185	108 N. Church St., Mt. Olive, NC
	SR	TXT	125 Cox Ave.	TE4-5820	225 Lafayette, Augusta, GA
Puente, Fidencio	JR	SOI	2709 Dorchester Ct.		2 de Abril #181A, Veracruz, MEX
Pugh, Charles Douglas	SO	EE	982 Harp Terrace		325 Garden St., Burlington, NC
Pugh, Claud Ervin	MR	EM	1037 St. Mary's	834-3724	Rt. 1, Asheboro, NC
Pugh, Fred Thomas, Jr.	SO	ASV	3393 Bagwell	TE4-9151	603 Quaker Lane, High Point, NC
Pugh, Robert Lynnwood	SO	PY	334 Bagwell	TE4-9151	Box 291, West Jefferson, NC
Pund, Peter N.	JR	AMA	3404 Ruffin		Tokeneke Trail, Darine, COON
	MR	AMS	320 Turlington		Thailand
Purcell, Garnie B.	SO	TXT	211 Bessy Bx 4331		504 Martin Ave., Harlan, KY
Purdie, John Wesley	SR	EE	130 Cox Ave.	VA8-6325	201 S. Orange Ave., Dunn, NC
Purdy, Dennis Gareth	FR	NE	43 Owen Bx 4579	832-9742	707 N. Hamilton St., Leaksville, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Purser, Jerry Franklin	JR	ABD	200 Purches St.	TE2-3247	200 Purches St., Raleigh, NC
Purvis, William Thomas	SO	EL	1710 Hillsboro St.	TE3-0545	310 Paul St., Rocky Mount, NC
Putnam, Arthur Dee	JR	ME	Box 144, Cary	828-0423	1127 Kendrick Dr., Gastonia, NC
Putnam, David Milten	JR	ME	P-224 McManham Vill.		Rt. 3, Shelby, NC
Putnam, Douglas Jaylord	FR	ME	Tucker Bx 4780	TE4-9239	Westwood Manor, Havre de Grace, MD
Pyatte, Claude Decator	PR	A	17 stadium		Rt. 3 Box 262, Newland, NC
Pyatte, Edward Milton	SC	IE	3013 Bragaw Bx 15102		522 Mt. View St., Lenoir, NC
Queen, Gerald Dean	FR	MEB	12 Stadium Bx 4357		40 Lincoln St., High Shoals, NC
Queensberry, Garnett Despard, Jr.	SR	PPT	244 Baywell Bx 3358	TE2-9131	Box 58, Floyd, VA
Quinn, Donald Magee	SO	ARC	Rt. 1, Cary	828-7934	Rt. 1 Box 144, Cary, NC
Quinn, Robert Ellis, II	FR	EE	342 Baywell Bx 3398	834-9151	711 Raleigh Rd., Wilson, NC
Quist, Alfred Benson	JR	FOB	212 Turlington	TE2-9297	Wood St., Southwick, MASS
Rabb, John Franklin	JR	MEA	Rt. 1, Cary	467-5522	Marion, NC
Rackley, Claude Leroy	SO	EE	315 Baywell	834-9151	112 Eastover Ave., Clinton, NC
Rackley, Ronald Hermon	JR	ME	P-307 McManham Vill.	828-5458	Rt. 1, Rocky Mount, NC
Rader, Louis Albert	SR	MTE	204 welch Bx 3257		597 Hollow Tree Ridge Rd., Darien, CONN
Radford, Russell Dean	FR	JE	Tucker Bx 4782		Flack Rd., Forest City, NC
Ragains, Wilbur Gene	MR	ME	211 Jones-Franklin	828-9534	211 Jones Franklin Rd., Raleigh, NC
Ragan, James Edward, III	JR	ABV	202 Ashe Ave.		Oriental, NC
Ragan, Nancy Marguerite	SO	JS	2504 Kenmore Dr.	TE3-3418	2504 Kenmore Dr., Raleigh, NC
Ragan, Woodrow McAdoo	FR	ME			206 W. Moore St., Apex, NC
Rainey, John Rutledge	GR	AMA	1407 Frank St.	833-5279	1022 West "C" St., Kannapolis, NC
Rainey, Louis Glenn	FR	FB	10 Montgomery St.	VAB-7386	10 Montgomery St., Raleigh, NC
Rameur, John David	FR	ARC	219 Syme	832-4150	417 East Main St., Lincolnton, NC
Rameur, William Lee, Jr.	FR	ARC	301 Watauga Bx 3049	TE2-9132	405 West Mtn. St., Kings Mtn., NC
Ramsey, David Carl	FR	CH	308 Gary Dr.	TE4-3977	308 Gary Dr., Raleigh, NC
Ramsey, John Randolph	FR	CH			801 Fourth St., Spencer, NC
Randall, John Courtright	MR	ONE	2828 Mayview Rd.		90 Rockefeller Dr., Ormand Bch, FLA
Randall, Larry Lee	FR	ARC	306 Welch Bx 3266		Rt. 1, Wadesboro, NC
Randle, Jay William	JR	ARC	110 Watauga Bx 3010		176-C Chapman's Landing Rd., Indian Head, MD
Rankin, Robert Wharten	FR	ARC	901 W. Johnson St.	TE2-5154	901 W. Johnson St., Raleigh, NC
Raney, J. Warren	FR	FOR	225 Turlington Bx 4253	TE2-9297	1024 Washington Hwy., Haverston, PA
Ransome, Philip Owen	SO	JRC	1620 Hillsboro	TE4-9378	421 Hampton Rds. Ave., Hampton, VA
Rao, Ragnavendra	GR	FOR	7 Maiden Lane		Hypocenter, Spain
Raper, Charles David, Jr.	SR	ATI	1042 Bragaw Bx 15218	TE2-9180	103 E. Williamson St., Whiteville, N
Raper, Richard Morris	SR	MEA	116 Forest St.	TE3-9390	Millie Home, Thomasville, NC
Raper, Roy Donald	JR	EE	318A Bragaw Bx 15343		Rt. 4 Box 370, Wilson, NC
Rasmussen, Jarger Kristian	JO	PMH	4309 Boxwood Rd.	VAB-8937	4309 Boxwood Rd., Raleigh, NC
Ratliff, Blake Arnold	SO	TXT	115 Woodburn Rd.	TE2-9332	8022 Morven Rd., Wadesboro, NC
Raukar, Robert	GR	ARC	2400 Wade Ave.	832-1779	2400 Wade Ave., Raleigh, NC
Rawl, Harvey Jayton	SR	AOI	4 Syme Bx 3600	TE2-9421	Rt. 2 Box 260, Lexington, SC
Rawls, Robert Murray	FR	ME	110 Tucker		257 E. Broad St., Statesville, NC
Ray, Frederick Harding	SO	ASO	114 Becton Bx 3714	TE2-9256	9 Leasboro Ave., Durham, NC
Raymond, Gerrard Edmond	PHO	ARC			6143 W. End Blvd., New Orleans, LA
Raynor, Bobby Charles	SR	IE	222B Bragaw Bx 15299	TE4-9123	Box 55, Leland, NC
Raynor, David Barclay	JR	AMA	413B Bragaw Bx 15181	TE4-9757	2302 W. Market, Greensboro, NC
Raynor, Roy Max			Rt. 1, Garner		Rt. 1, Garner, NC
Rea, James Childs, III	FR	ME	Bx 4787	TE2-5323	Amphill Farm, Cartersville, VA
Reames, Arthur	JR	IE	UK-23 Vetville	TE4-0935	UK-23 Vetville, Raleigh, NC
Reaves, Odis Maurice	FR	TC			440 E. Main St., Clayton
Reavis, Mary Lynn	FR	AMA	2208 Garden Pl.	833-5252	Rt. 1, Mooresboro, NC
Redmon, Alan Thomas	SO	ABF	Brigaw Bx 15188	TE4-3909	Rt. 1, Liberty, NC
Redmon, Ivey Martin, Jr.	SO	ME	418A Bragaw Bx 15396		Rt. 3, Kernersville, NC
Redmond, Jake Rowe	SR	ABO	5-16 MSH	VAB-8393	114 Boundary, Waynesville, NC
Reese, Oscar Edwin			238 Durham Rd., Cary	467-1112	238 Durham Rd., Cary, NC
Reed, Charles William	JR	MEB	308 Horne St.	TE2-7050	1501 Cleverdale Ave., Winston-Salem, NC
Reed, George Lindmiller	JR	JE	Box 3474, Cary	467-3961	2011 Wawa Ave., Durham, NC
Reed, Russell Morehead	SO	MEA	Box 15407		4625 S. 4th St., Arlington, VA
Reese, Malcolm Edward	SO	NE	201 Harrison Ave.	TE2-4527	Rt. 1, Farmville, NC
Reese, Walter Lee	SC	ME	125 Bagwell		812 8th St., S.E., Hickory, NC
Reeves, Goodwyn George	MR	EE	3344 Octavia St.	TE3-9867	3344 Octavia St., Raleigh, NC
Reeves, William Howard, Jr.	JR	AMA	41 Over Bx 4578	832-9142	Rt. 1, Mocksville, NC
Register, Marvin Bell, Jr.	JR	ME	145 Turlington Bx 4230	834-9279	Rt. 1 Box 212, Wilmington, NC
Reid, David W.	MR	EST	Old Wake Forest Rd.		Rt. 7 Box 103, Raleigh, NC
Reid, Forest Michael	FR	A	104 Watauga Bx 3004	TE2-9444	Rt. 3 Box 10, Woodland Park, NE
Reid, Jack Douglas	SO	AB	Bx 15045		Rt. 1, Norwood, NC
Reid, Willis Alton, Jr.	SR	ASZ	1439 Dixie Trail	TE2-5141	1439 Dixie Trail, Raleigh, NC
Reimund, Donn Alvin	JR	ACC	2341 McMullan Cir.	828-5280	2341 McMullan Cir., Raleigh, NC
Reinecke, Donn William	GR	PMH	2334 McMullan Cir.	828-8866	Box 888, Fayetteville, NC
Remeta, John Douglas	FR	EE	Syme Bx 3528	832-9288	Rt. 1 Box 34, Rockwell, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Reagan, Felix Lee	FR	EE	108 Cox Ave.	828-8306	2469 Kentucky St., West Palm Beach, FL
Reagle, Harold	JR	EE	502 Tilden St.	TE2-5344	Bald Creek, NC
Reamer, Charles Leonard		AGI	328 Tucker Bx 4759	TE2-9323	4713 Yaddin Rd., Fayetteville, NC
Reasner, Jackie Carter	FR	AG	119 Tucker Bx 4630	TE2-9388	Rt. 1 Box 69, Pantego, NC
Reasner, Manuel Antonio	FR	ABA	324 Alexander Bx 4187	TE2-9349	Calle 25B No. 4A29, Bogota, COLOMBIA
Reaser, Kenneth vonn Phillip	PRD	ARC	205 Chamberlain St.	834-4163	1507 W. Pettigrew St., Durham, NC
Revels, Billy S.	JR	ABD	2712 Vanderbilt Ave.	TE2-1952	Rt. 1, Williamston, NC
Reynolds, Richard Wayne	SO	MEA	409 N. Wilmington St.		2139 N. Sharon-Amity Rd., Charlotte, NC
Reynolds, Robert	JR	ABD	155 Tucker Bx 4662	TE2-9388	Rt. 1 Box 458, Lumberton, NC
Reynolds, David Ralph	SR	TC			Patrick Springs, VA
Rhodes, Ronald Jack	JR	MEA	Rt. 6 Philcrest		506 Park Ave., Goldsboro, NC
Reynolds, William Alvin	SO	FOM	Hope St.		Bex 442, Rockingham, NC
Reynolds, William N.	SR		201 Alumni Bldg.	TE2-9322	2800 Robin Hood Rd., Winston-Salem, NC
Rhea, Jimmy Harry	SO	RPA	K-25 McKimmon Vill.		N. Cantor Rd., Cantor, NC
Rhine, Donald Allan	FR	FOR	216 Bagwell Bx 3348		6722 Railway Ave., Baltimore, MD
Rhodes, Glenn Garrison, Jr.	SO	CH	260 Owen Bx 4511	TE2-9410	Rt. 4 Box 68, Matthews, NC
Rhodes, James Richard	FR	MEA	303 Owen Bx 4520	834-9300	2108 Floral Ave., Charlotte, NC
Rhodes, James Thomas	SR	PY	3414 Hillsboro St.	VA8-9181	277 Hillside St., Asheville, NC
Rhodes, Jerome Hardy	GR	TC	207 Quail Dr.	828-7645	207 Quail Dr., Raleigh, NC
Rhodes, Robert Daniel	SR	CSC	1254 Woodburn Rd.	TE3-6901	Rt. 6, Lexington, NC
Rhodes, Thomas Martin	SO	AMA	2330 Knowles Ave.	TE2-4919	Rt. 2, Leaksville, NC
Rhodes, William Gale	SO	TXT	310A Bragaw Bx 15326	TE4-9253	327 Greenwood St., Leaksville, NC
Rhynes, Marshall Hoffman	SR	ME	Q-323 McKimmon		Julia Ave., Belmont, NC
Rhynes, William Carroll	FR	A	127 Owen	TE2-9437	Box 532, Gastonia, NC
Rice, Harold Bell	GR	SSC	N-27 McKimmon Vill.	834-1023	Paintsville, KY
Rice, John Sidney, Jr.	SO	MEA	303 Gold Bx 3227		20 Hunt St., Ft. Bragg, NC
Rice, Robert Taylor	SO	NE	107 Welch Bx 3243	TE2-9119	Aurora, NC
Rice, Ronald Earl	FR	ARC	311 Watauga Bx 3047	TE2-9132	1818 Elizabeth Ave., Winston-Salem, NC
Rich, Marion Edward	SO	AGI		TE2-9349	Bex 456, Castalia, NC
Richards, Danny Wentworth	FR	AGI	358 Tucker	TE2-9323	Rt. 3 Box 202, Salem, VA
Richardson, Euell Calhoun, Jr.	GR	EST	3002 Madlin Dr.	833-3809	Bax 511, Cartersville, GA
Richardson, Clarence Douglas	FR	EE	339 Tucker Bx 4769	TE2-9323	Rt. 1, Walnut Cove, NC
Richardson, Gary Douglas	SR	AMA	204C Bragaw		Rt. 3, Box 282, Siler City, NC
Richardson, John Gilbert	JR	AED	Q-314 MSH		Rt. 1, Nakina, NC
Richardson, Kenneth Earl	SO	EE	Berry		3339 Graymont Dr., Charlotte, NC
Richardson, Kenneth Ray	SR	IE			215 W. Wilson Ave., Wendell, NC
Richardson, Ralph James	SO	MTE	3232 Hillsboro St.		Rt. 5, Monroe, NC
Richardson, Richard Harvey	DR	ON	2719A Kilgore Ave.	VA8-3814	823 E. Palestine, Mexia, TEXAS
Richardson, Sherman William, III	JR	IE	116C Bragaw		Bex 114, Seagrove, NC
Richardson, Stewart Averett	FR	CBC	1217 Kent Rd.		RFD 1, Rocky Point, NC
Richardson, Walter Earl	SO	AMA	815 N. Blount St.	TE2-2773	815 N. Blount St., Raleigh, NC
Richardson, William Clayton	JR	RPA	723 W. Morgan St.	TE2-4251	Rt. 3, Franklin, NC
Richie, Robert Alfred	SR	TXT	1710 Hillsboro St.	TE4-2001	Box 270, Marion, NC
Richmond, John Howard	SO	CE	305 Alexander	TE2-9349	1231 Landon St., Durham, NC
Riddick, Joe Lander, Jr.	SR	CE	4064 Chamberlain St.	832-9611	1508 Church St., Scotland Neck, NC
Riddick, William Sidney	CE		7 Berry	TE2-9350	1714 Harrington Rd., Elizabeth City, NC
Riddle, Duncan David, Jr.	SR	TXT	103 Chamberlain		409 Greensboro Ave., Sanford, NC
Riddle, James Henry, Jr.	FR	TXT	Bx 4492		600 W. Henderson St., Salisbury, NC
Riddle, Robert Calton	FR	ARC	115 Woodburn Rd.	TE2-2933	Bax 404, Sanford, NC
Ridge, William Eugene	JR	CE	1620 Hillsboro	TE4-9378	Rt. 2, Denton, NC
Ridoutt, Charles Monroe	SO	IATO			602 St. Mary's St., Garner, NC
Riedel, William Robert	FR	EE	335 Owen		29 S. Midland Rd., Asheville, NC
Riedell, Charles Alexander	SR	IATO	2405 Clark Ave.	TE2-6543	117 Birchwood Ter., Clifton, NJ
Riggins, Charles Robert	SO	CE	1254 Woodburn Rd.		610 Reeves Ct., Charlotte, NC
Riggins, John Forrest	SO	TXT	Bx 15320	TE4-9253	6321 Teresa Ave., Charlotte, NC
Riley, David L.	JR	CE	212 Park Ave.	TE3-0545	1808 1/2 E. 7 St., Charlotte, NC
Riley, Sam Warwick	FR	MEA	Bx 4638	TE2-9367	41 Bassett St., Ft. Bragg, NC
Riley, Ermer Kyle, Jr.	JR	ME	1188 Bragaw	TE2-9180	Rt. 1 Box 181, Harrisburg, NC
Riley, Larry Haden	SO	CE	1307 Jackson St.	TE4-6879	7915 Plantation Rd., Hellins, VA
Rink, James Edward, Jr.			50 Owen Bx 4584	832-9142	1505 Glenwood Ave., Greensboro, NC
Ritchie, Glenn Elmo, Jr.	SO	ME	Bx 15073	TE2-9185	Box 157, Richfield, NC
Ritchie, Joe Lee	JR	ME			Rt. 3, Albemarle, NC
Ritchie, Wade Hampton, Jr.	UN	A	466 W. Park St. Cary	HO7-2892	466 W. Park St., Cary, NC
Ritter, James Heinrich		TXT	110 S. Boylan Ave.		Sirnach, Switzerland
Ritterskamp, Jack Harding, Jr.	FR	ME	322A Bragaw	TE4-9253	5230 Manning Rd., Charlotte, NC
Rivenbark, Robert Kidd, Jr.	SO		3010 Bragaw		51 S. Railroad St., Wallace, NC
Rix, Kenneth Paul	JR	PY	107D Bragaw Bx 15016		33 Beechwood Rd., Asheville, NC
Roark, Larry Alden	JR	EE	129 Syne	832-9388	Zionville, NC
Robbins, Edward Hamby	SO	ME	Bx 15171	TE4-9757	819 Chattawka Lane, New Bern, NC
Robbins, William Tyson	SO	GS	2205 Brewer St.	VA8-4538	2205 Brewer St., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Roberts, James Hall	GR	FOK	4-324 McKimmon Vill.		167 Varnedoe Ave., Garden City, CA
Roberts, Clarence Eugene	FR	MEA	313 Bagwell Bx 3399	834-9151	209 West St., Asheville, NC
Roberts, David Clifton		AGI	16 Statum		926 W. Main St., Williamston, NC
Roberts, Eugene Benjamin, Jr.	SO	AT	332 Becton		Box 126, Robertsonville, NC
Roberts, Noel Smith, Jr.	FR	MEB	114 Alexander	TE2-9457	307 Vance St., Williamston, NC
Roberts, Hollis J.	SO	ATF	48 Owen Bx 4382	TE2-9142	Rt. 1 Box 335, Candler, NC
Roberts, John Lane	GR	SEB			645 Redding Rd., Asheville, NC
Roberts, William Hugh, Jr.	SR	AMA	2713 Vanderbilt Ave.	833-3773	South Main St., Robertsonville, NC
Roberts, Albert Sidney, Jr.	DR	NE	3018 Leonard St.	TE2-8731	210 College Ave., Washington, NC
Roberts, Charles Larry	FR	CE	121 Owen Bx 4421	TE2-9115	Box 877, Rutherfordton, NC
Roberts, Darrell Lynn	GR	AGE	0-11 McKimmon Vill.		Rt. 1 Box 240, Seffner, FLA
Roberts, David Arthur			259 Owen	TE2-9252	320 N. Beaver St., Landis, NC
Roberts, Edward S.	SR	TC	205 Alumni Bldg.	TE2-9332	Amherst, VA
Roberts, Gregory Lenny	SO	NE	204 Welch Bx 3252	TE2-9119	206 Dunbarton Cir., Aiken, SC
Roberts, Jack Franklin	FR	AGI	330 Western Blvd.		Rt. 6 Box 154, Lenoir, NC
Roberts, James Crockett	JR	EE	2701 Kilgore Ave.		Rt. 1 Box 264, Wilson, NC
Roberts, Jerry Allan	DR	AMA	301 Dixie Trail	828-5789	320 N. Beaver St., Landis, NC
Roberts, John Hughes	SO	EE	56 Owen Bx 4590	TE2-9142	407 Walker St., Chase City, VA
Roberts, Larry Jobe	FR	ASV			Rt. 5 Box 386, Greenville, NC
Roberts, Larry Reid	FR	GS		TE2-9735	Rt. 1, Hillsboro, NC
Roberts, Melvin Lee	FR	AF	212 Becton		Rt. 2, Creedmoor, NC
Roberts, Stencil Beaman	JR	EE	333 Becton Bx 3801		Rt. 2, Creedmoor, NC
Roberts, Wayne Einfeld	SR	EE	109B Bragaw Bx 15018		Box 269, Hillsboro, NC
Roberts, Woodridge Randolph	JR	FOR	1104 Glenwood Ave.	TE3-1762	79 Vermont Ave., W. Asheville, NC
Robertson, Jimmy William	FR	FOR	303 Tucker Bx 4736	TE2-9739	RFD 4, Lynchburg, VA
Robertson, Gerald Wayne	SR	PPT	Alexander	TE2-9142	100 Harrell St., Williamston, NC
Robertson, Joseph Frederick	UN	GS	5005 Glen Forest Dr.	VA8-3826	5005 Glen Forest Dr., Raleigh, NC
Robertson, James	MR	NE	2910 Clark Ave.	VA8-3942	1140 W. 11th St., Greensboro, NC
Robertson, Ann Elizabeth	FR	EST	1407 Lutz Ave.	TE3-9925	1407 Lutz Ave., Raleigh, NC
Robinson, Clayton Harrison	SR	ME	120A Bragaw Bx 15243	TE2-9142	Rt. 4 Box 149, Clinton, NC
Robinson, Glenn Albert, Jr.	SR	MEA	1363 Baez St.	TE3-0913	801 Colville Rd., Charlotte, NC
Robinson, Harold Bernard	JR	AKC	0-11 McKimmon Vill.	828-6369	301 E. Georgia Ave., Bessemer City,
Robinson, Jacob Ellis	FR	TXT	2601 Clark Ave.	TE2-8631	410 S. Oakland St., Gastonia, NC
Robinson, James Calvin	GR	CE	2401 Barnettville St.		727 N. Oak St., Lincolnton, NC
Robinson, Leslie Gregory	SO	HFA	Box 15094	828-8182	206 5th Ave., St. Albans, W.VA.
Robinson, Mendel Leno, Jr.	MA	TXT	W-3 Country Club Hme	TE3-2216	W-3 Country Club Homes, Raleigh, NC
Robinson, William Drew	SO	AGI			Rt. 2, Leicester, NC
Rockett, Richard Daniel	SO	ME	210 Becton		1542 Ann St., Gastonia, NC
Rodgers, Warner Rickard	SO	ME	7 Syme Bx 3603	TE2-9288	Rt. 4 Box 608, Kannapolis, NC
Rodgers, William Gordon, Jr.	JR	EE	313B Bragaw		110 Snathers St., Canton, NC
Roessler, William Valentine	FR	ME	137 Tucker Bx 4647	TE2-9388	3033 Marmion St., Winston-Salem, NC
Romers, Allison Johnson	SO	CH	Bx 4581	TE2-9252	3929 Belcross Dr., Charlotte, NC
Romers, Harold Edward	FR	NE	606 Austin, Cary	467-1559	606 Austin St., Cary, NC
Rogers, Charles Nicholas, Jr.	FR	FRM	2510 Vanderbilt Ave.		1722 W. Home Ave., Hartsville, SC
Rogers, Clarence Dean	JR	AMA	2314 Hillsboro St.		Box 33 Rt. 1, Fair Bluff, NC
Rogers, David Thomas	JR	CEC	18 Syme	TE2-9421	540 Potter Blvd., Brightwaters, NY
Rogers, Donald Steven	SO	EE	P-124 McKimmon Vill.		1208 Forestdale Dr., Salisbury, NC
Rogers, Jerry Wayne	JR	TXT	213B Bragaw Bx 15082	TE4-9378	741 West "A" St., Kannapolis, NC
Rogers, John D.	SO	CE	7 Syme Bx 4546	TE2-9350	523 Maple St., Elizabeth City, NC
Rogers, John Morris	FR	ASA	1020 E Nichols Dr.		405 Liberty St., Williamston, NC
Rogers, Marvin Michael	SR	IE	0-24 McKimmon Vill.	833-0763	Box 12, Clyde, NC
Rogers, Robert Taylor	MR	EE	2312 Hillsboro St.		148 Pinecrest Rd., Durham, NC
Romers, Thomas Franklin	SO	CE	Bx 5566	TE2-9353	2214 Hassell Pl., Charlotte, NC
Rogers, Tommie Lee	JR	AMP	302 Tucker		Box 62, Saratoga, NC
Rogers, Walton Worth	FR	FOK	Owen Bx 4571	834-9836	2234 Westminster Pl., Charlotte, NC
Rogers, William Larry	FR	CE	337 Owen Bx 4551	834-9836	Rt. 3, Mebane, NC
Rohlf, Kenneth Lawrence	JR	HFA			
Rohner, Felix Walter	JR	TC	210 Cox Ave.	833-8722	Niklaus von Fluestrosse 26, Basel, Switzerland
Mohrabacher, Kim Byrle	FR	MEA	213 Bagwell		MO4 301, Cherry Point, NC
Ruef, Thomas George	MR	AG	508 Phelps Ave.		508 Phelps Ave., Raleigh, NC
Rod, Antonio Arturo	MR	AG	2410 Clark Ave.		Avenida Uruguay 994, Salta, Argentina
Rollins, James Henderson	SO	AG	315 Owen	TE2-9142	Grover, NC
Romesburg, Dennis James	FR	FRM	115 Park Dr.		5424 N. 23rd St., Arlington, VA
Road, Robert Thomas	FR	FR			219 S. Academy St., Cary, NC
Rodriguez, John James	FR	FR			Rt. 3, Pittsboro, NC
Rose, Billy McCoy	SO	AG	Box 15094	TE2-9192	Rt. 1 Box 26, Panteo, NC
Rose, Curtis Dean	FR	SO		826-6016	Box 393, Rt. 1, Cary, NC
Rose, Dennis Austin	FR	SO	1710 Hillsboro St.	TE4-2001	120 College St., Littleton, NC
Rose, John Edwin, Jr.	SO	FR	1321 Chester Rd.	834-5333	2741 Bucknell Ave., Charlotte, NC
Rose, John James	FR	SO	Academy St., Cary	467-5602	Arbor Villa Apt. 2, Cary, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Rose, Norman Harold	SO	AED	204 Alexander Bx 4136	TE4-9746	Rt. 2, Princeton, NC
Rose, William Johnston	SO	PY	1710 Hillsboro St.	TE4-2001	120 College St., Littleton, NC
Rose, William Willie	FR	NE	Bx 4367		Rt. 1 Box 14, Norlina, NC
Rostro, Portland Rochet	SO	IE	228 Furches St.	TE2-7474	1222 Oakwood Ave., Gastonia, NC
Roseman, Billy Forney	JR	EE	216 Ashe Pl.		705 Field St., Thomasville, NC
Rosenbark, James Frederick	JR	NE	209A Bragaw		170 Academy St., Canton, NC
Roseveare, Ronald Newman	UN	GS	Rt. 4	833-3594	200 Pineview Dr., Greenville, NC
Rose, Charles, II	JR	ARC	1720 Hillsboro St.	828-9200	203 Hillcrest Dr., Greenville, NC
Ross, Charles Grady	JR	TXI	Tucker Bx 4618	TE2-9367	605 Oval St., Kannapolis, NC
Ross, Donald William	SO	TXI			Wilkins Dr., Sanford, NC
Ross, Gordon Andrew	SR	ATE			Rt. 2, Clinton, NC
Ross, Irvin Whitley	SO	AGI			Rt. 2, Williamston, NC
Ross, James Russell, Jr.	JR	ARC	104 Berry		402 E. Third St., Ayden, NC
Ross, Joseph Clark	SO	ME	56 Owen Bx 4588	832-9142	Rt. 1 Box 258, Matthews, NC
Ross, Keater Smith	FR	AGI	227 Bagwell Bx 3359	832-4131	Rt. 1, Robersonville, NC
Ross, Michael Lee	JR	TXI	Bx 15320		Rt. 2, Albemarle, NC
Ross, Robert Terry	FR	TC	4 Becton	832-9261	Littleton, NC
Ross, Ronald William	FR	CE	2513 Clark Ave.	TE2-0268	3921 Ridgecrest Ave., Charlotte, NC
Ross, Harry Harry	SO	RPA	Rt. 1, Cary		59 Pearson Dr., Asheville, NC
Ressighol, Charles Finley	SR	ME	L-21 MSH	VAB-6656	61 Circle Dr., Thomasville, NC
Rouse, Graham Manly	JR	ARC	2209 1/2 Hope St.	TE4-3244	202 Kenneth Blvd., Havelock, NC
Rouse, Robert Gene	SR	ME	209 Welch Bx 3257		RFD Bx 202, Magnolia, NC
Routh, James Hoyd	SO	CEC	2108 Bragaw Bx 15276	TE4-9123	507 Franklin Blvd., Greensboro, NC
Routh, Thomas Stockard	SO	CE	320A Bragaw Bx 15347	TE4-9253	3221 S. Elm St., Greensboro, NC
Rouser, Charles Robert	FR	EE	207 Owen Bx 4464	TE2-9410	727 S. Fulton St., Salisbury, NC
Rowan, Charles Witsell			5004 W. Lakeside	VAB-8640	5004 W. Lakeside Dr., Raleigh, NC
Rowan, William Hamilton, Jr.	GR	CE	2533 Country Club Ct.	834-6971	Nashville, TENN
Rown, Gary Lee	FR	RPA	Bx 4498		321 4th St., Burnham, PA
Rown, George Manning, Jr.	JR	MTE	2615 Fairview Ave.		Box 54, Aulander, NC
Rown, Jimmie Lee	SO	AGI	240 Alexander Bx 4159	TE4-9746	RFD 1, Kenly, NC
Rows, Samuel Lester		EE	225 Alexander	TE4-9746	10 S. Logan St., Marion, NC
Roy, John Curtis	SO	IE	1155 Bragaw	TE2-9129	420 Alexander Cir., Marietta, GA
Royal, Jerry Bruce	FR	EE	333 Owen Bx 4548	TE4-9300	Rt. 2, Benson, NC
Royal, Thomas McPherson	SR	EE	2702 Hillsboro St.	TE2-1835	Thurmond, NC
Roycroft, Robert Elwood	SR	POM	P-109 McKimmon Vill.		1910 Perry Ave., Wilmington, NC
Royer, Robert Dean	SO	RPA	222 Tucker Bx 4693	TE2-9192	39 W. 6th St., Mt. Carmel, PA
Royster, James Daniel	FR	ASZ	126A Bragaw Bx 15255		Box 68, Benson, NC
Rozewski, Charles Ray	SR	POR	42 Dixie Dr.	TE2-1891	905 1st St., Lumberton, NC
Ruark, Herbert Taylor	FR	CE	237 Tucker Bx 4707	TE2-9387	301 N. Ellis Ave., Dunn, NC
Rubin, Ronald Jerome	FR	GS	317 Tucker Bx 4748	TE4-9239	316 White Oak Dr., Henderson, NC
Rudisill, Elbert Geroud	SO	PY	Robert's St.		502 Atlantic Ave., Shelby, NC
Rudd, Clyde Wesley, Jr.	JR	MTE	1216 Bragaw Bx 15038		303 Kimberly, Greensboro, NC
Rudd, William Seth	FR	EE	Box 433, Cary	467-1338	1411 Cardinal Pl., Greensboro, NC
Rudder, John Daniel	SR	ASZ	6 Enterprise St.	TE2-4788	718 Maple Ave., Burlington, NC
Rudell, Raymond Frank, Jr.	JR	NE	2 Berry Bx 4335	TE2-9350	182 Shook Rd., Lockbourne AFB, OHIO
Rudisill, Carl Sidney	GR	ME	315 Wilmot Dr.	TE4-8334	315 Wilmot Dr., Raleigh, NC
Rudisill, James Kohn	JR	MEA	115A Bragaw Bx 15025	TE2-9129	914 Park Ave., Greensboro, NC
Rudy, Daniel William	FR	ASZ	2823 Barmettler St.	TE2-4890	2823 Barmettler St., Raleigh, NC
Ruehrwein, William Raymond	FR	CEC	220 Syme	TE2-9150	818 Maxwell St., Goldsboro, NC
Ruffy, Donald Lee	SO	RPA	214 Owen		637 Mahaley Ave., Salisbury, NC
Ruffy, Donald Rose	SO	MEA	3108 Bragaw Bx 15327	TE4-9253	Rt. 4 Box 14, Taylorsville, NC
Ruland, Ross Rogers	SO	CHE	356 Tucker Bx 4783		208 Norwin Dr., Winston-Salem, NC
Runkle, Charles James	SR	MTE	229 Syme Bx 3561	TE2-9150	Box 241, Winterville, NC
Ruppe, Jerry Lee	SO	CE	410 N. Blount St.	828-3069	410 N. Blount St., Raleigh, NC
Rush, H. F.	MR	EE	Alexander		1500 Fairway Rd., Asheville, NC
Russell, Millard Eugene	SO	ATF	302 Gold Bx 3226		Rt. 1, Albemarle, NC
Russell, Roger Alan	SO	POR	251 Owen Bx 4502	832-9252	14 E. Howell Ave., Alexandria, VA
Russell, Thad Terrell	JR	IE	201 1/2 Park Ave.	TE2-7050	Russ Knoll, Granite Falls, NC
Rust, Carl William	SR	POM	Berry Bx 4307	TE2-9363	500 Sugar Creek Rd., Charlotte, NC
Rust, Charles Gayle	SO	CE	122 A Bragaw Bx 15247		2325 Cloister Dr., Charlotte, NC
Rutherford, Neal A., Jr.	SG	PHY	116 Hawthorne Rd.		Asbury Rd., Candler, NC
Rutledge, Howard Booth	JR		320 Bagwell Bx 3386	TE4-9151	Rt. 2, Arden, NC
Rutledge, James Ray	FR	ME	3414 Hillsboro St.	VAB-9151	533 Davis St., Statesville, NC
Sabbitt, Eugene Joseph	FR	EE	2820 Everett Ave.	833-5665	Kimber St., New Phila., PA
Sabikhi, Surinder Kumar	MR	TXI	102 Gardner St.	TE4-4012	A/8142 Partap Bagh, Delhi, India
Sabiston, Larry Thomas	JR	ARC	709 Peyton St.	TE4-3765	709 Peyton St., Raleigh, NC
Sadler, Emory Welch	GR	PU	1508 Frank St.	828-3391	Kenansville, NC
Sadler, Emory Vernon	SG	EE	211 Turlington Bx 4239		Rt. 2 Box 185, Aurora, NC
Safont, Robert Parks	SR	CE	1709 Hillsboro St.	TE3-6901	7233 Tuckaseegee Rd., Charlotte, NC
Safont, Julio	MR	ON	3028 Leonard St.	828-2544	Pueyrredon 1145-9, Pergamino, ARG.

NAME	YR	CITY	ADDRESS	TELEPHONE	HOME ADDRESS
Sarrit, David Bernard	FR	CH	208 Alumni Bldg.	TE2-2849	711 N. Caldwell St., Salisbury, NC
Sage, Benjamin Ray	FR	ME	204B Bragaw	TE2-9252	3325 Kings Dr., Raleigh, NC
Sagmeister, Ernest Edward	FR	ME	3110 Raymond St.	TE2-2849	
Saha, Satindra Kumar	ME	ME			
Saib, Khalid Lauriston	SR	ME		VAS-9200	
Saiching, Robert Dwight	FR	ME		TE2-9387	
Saizido, Louis Bernabe	FR	ME			
Sale, William Everett	SO	ME		TE2-9754	Carrera 11, Cali Valle, Colombia
Salen, Samet Amos	FR	ME			Rt. 1, Ronda, NC
Salmon, Ronnie Lee	JR	ME			Cairo, Egypt, UAR
Salmon, Philippe Jacques	FR	ME	208 Alumni Bldg.		Av. Brasil 2574, Montevideo, URG
Salvaggio, Joseph Rex	FR	ME	204B Bragaw	TE2-9252	275 Roatan St., Valdese, NC
Sawyer, John Townsend	SO	AMA			639 Woodcrest Ave., Ardmore, PA
Saxson, Alfred Kenneth, Jr.	SR	CH		TE2-9300	104 Meadowood Rd., Guilford, NC
Saxe, Clay Edward	SO	AMA			Rt. 1, Dillard, GA
Saxe, James David, Jr.	FR	ME	316 Tucker		
Saxuels, Walter Edward	FR	ME	4228 Hillsboro	TE2-5082	1905 Parnam Rd., Richmond, VA
Sawborn, Herbert Ralph	JR	ME		TE2-1795	110 Ervin Rd., Morganton, NC
Saxton, David Ross	JR	ME	921 W. South St.	TE2-2975	
Saxton, Thomas Walter	FR	ME			
Sanders, Dwight James	SO	ME	Wicker Trailer Ct.		Rt. 1, Knightdale, Raleigh, NC
Sanders, Harry Thomas	SO	ME	Bx 4202	TE2-9279	48 Henderson, Badin, NC
Sanders, James Campbell	JR	ME			502 Booker St., Shelby, NC
Sanders, Gus Clint, Jr.	FR	CH	211 Watauga Bx 3029	TE2-9132	
Sanders, Marvin Albert	FR	ME	3300 Hall Pl.		
Sanders, Rufus William, Jr.	FR	ME			643 Rowland St., Henderson, NC
Sanders, Samuel George, II	FR	ME	2502 Anderson Dr.	TE2-7902	
Sanders, Sarah Anne	ME	CH	308 Horne St.	TE2-7050	
Sanderson, Charles LeRoy	SO	LA	633 Georgetown Rd.		Elizabethtown, NC
Sanderson, James Marshall	SO	LA			
Sandifer, James Paul	SR	ME			
Sandlin, Milton Albert	FR	ME			
Sandoval, Miguel Antonio	FR	ARC	Watauga Bx 3012	TE2-9447	Rt. 5 Box 158, Rutherfordton, NC
Sandora, David	SO	ME		467-9872	Box 638, Cary, NC
Sanford, Douglas Robert	SO	CH		834-1018	2300 Lora Lane, Raleigh, NC
Sandora, David	SO	CH		TE2-2220	Rt. 1 Bahama, Durham, NC
Sandora, Robert	FR	ME	115 Ashe Ave.		55 Highland Trail, Denville, NJ
Sangster, Kenneth Meldrum	FR	ME	10 Enterprise St.		1211 Park Dr., Elizabeth City, NC
Sansbury, David Lee	SO	ME			Alcantara 62, Madrid, Spain
Santamaria, Felix Garcia	FR	ME			
Santowasso, Leo Anthony	FR	ME		828-6891	3031 Medlin Rd., Raleigh, NC
Sapp, Clifton Fletcher	FR	ME	Bx 15271	TE2-9123	Rt. 6, Winston-Salem, NC
Sara, Edward Lee	FR	ME	210 Cox Ave.		4108 Country Club Rd., Winston-Salem
Sara, Jay Richard	FR	ME	304 E. Park Dr.	TE2-7638	150 Bch 141 St., Belle Harbor, NY
Sargent, Robert	FR	ME			
Sargent, William Cooper	FR	ME	212 Park Ave.		
Sartin, Earl Moses, Jr.	FR	ME	7 Alexander Bx 4138		
Sarvis, Gilbert Grissette	FR	ME	Bx 5566		826 Crescent Dr., Reidsville, NC
Sasser, James Glenn	FR	CH	102 Gold Bx 3202	TE2-8263	
Sasser, Martin Glenn, Jr.	FR	RPA			N. Main St., Tarboro, NC
Sasser, Preston Eugene	FR	ME	2617 Avenet Ferry Rd.		Rt. 5 Box 173, Winston, NC
Sasser, Robert Carroll	FR	ME	4033 Greenleaf St.	TE2-6879	
Sastrodiolo, Jon Sudiono	FR	ME			
Satterwhite, Carl Moore	FR	ME	2332 Airline Dr.	934-4591	, Charlotte, NC
Satterwhite, Harold James	FR	ME	235 Tucker Bx 4705		Rt. , Salisbury, NC
Satterfield, Roscoe Jones	FR	ME	1710 Hillsboro St.	TE2-2001	
Satterwhite, Harold Landis, Jr.	FR	ME	207C Bragaw Ex 15063		McGinn, NC
Sauls, Admiral Dewey	FR	ME			
Saunders, Eugene Monroe	FR	ME			Troy, NC
Saunders, James Calvin	FR	ME	3200 Hillsboro St.	TE2-7660	RPD 1 Box 100, Rockingham, NC
Saunders, Samuel Gilmore	FR	ME	117 W. Park Dr.	TE2-7171	117 W. Park Dr., Raleigh, NC
Saunders, Spencer William, Jr.	FR	ME	3174 Gutter St.	828-9750	817 14 St., Wakesboro, VA
Savariego, Samuel Pinta	FR	ME	207 Owen Bx 4464	TE2-9410	
Sawhill, James Mumford, Jr.	FR	ME	221 Beeton Bx 3755	TE2-9334	
Sawyer, Carl Thomas	FR	ME	Gold		
Sawyer, Henry Claude	FR	ME	21 Enterprise St.		
Sawyer, Jay Keitt	FR	ME	2720 Everett Ave.		Neuse Blvd., New Bern, NC
Sawyer, James	FR	ME			1923 Wake Forest Rd., Durham, NC
	FR	ME			Rt. 2, Vaneboro, NC
	FR	ME	219 Syne Bx 3551		Rt. 2, Williamston, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Scarboro, Conrad Lee	JR	ME	Bx 3369		Rt. 1, Norwood, NC
Scarborough, Jack Steven	FR	PD	50 Owen Bx 4584		2906 Spring Garden St., Greensboro,
Scarborough, William Grayson	SO	ASV	7 Enterprise St.	TE4-0435	48 Rice Branch Rd., Asheville, NC
Scarpatti, Joseph Henry	JR	MED	103 Berry Bx 4303	TE2-9363	453 Midway Ave., Fanwood, NJ
Scearce, Percy Jennings, Jr.	SR	EE	519 Grove Ave.	833-7670	1510 Franklin Tpk., Danville, VA
Scesny, Anthony Joseph	JR	EE	2405 Clark Ave.	TE2-6547	1541 Montauk Hwy., Bellport, NY
Schafer, John Robert	JR	RPA			8 Freeport Rd., Pittsburgh, PA
Schaffer, Henry Eldin	DR	GN	222A Bragaw	TE4-9123	Gomer St., Yorktown Hgts., NY
Schaub, Conrad David	SR	ARC	306 Jeld Bx 3230	TE2-9263	130 Mill Morr Rd., Painesville, OH
Schaub, Mary Hunter	SO	CH	119 Brooks Ave.	TE3-6428	306 Chatham St., Apex, NC
Scheider, William Bythe	FR	FOR	Tucker Bx 4719	TE2-9387	3 Club Cir., Savannah, GA
Scheld, Herbert William	SR	WT	618 W. Lane St.	832-2897	Rt. 2 Box 416, Statesville, NC
Scheld, Robert Alan	FR	POM			Rt. 2 Box 416, Statesville, NC
Scheuermann, Frank Peter	GR	AGC	1601 Hillsboro	TE2-6601	920 S. Harrison, Covington, LA
Schick, Pablo Francisco	JR	ME	Bx 5826	TE2-9185	El Rosal Ave. El Retiro, 15, Caracas, Venezuela
Schick, Pedro Alejandro	SR	ME	Bx 5826		El Rosal Ave. Retiro 15, Caracas, Venezuela
Schick, Seth Harvey	MR	AGC	F-15 MSH	834-3084	RFD 1, Kayesville, UTAH
Schiller, Bruce Randolph	FR	MM	65 Owen		814 Madison Ave., Winston-Salem, NC
Schiller, David Hargrave	SC	ARC	118 Becton Bx 3718		908 S. Madison Ave., Goldsboro, NC
Schmidt, Kaeren Ann	FR	GS	103 Enterprise St.	TE2-7652	Box 1342, Decatur, ALA
Scheck, Richard Joseph	FR	A	3616 Western Blvd.	TE3-8901	Rt. 2, Boonville, NC
Scheffield, Thomas John	GR	EST	101 Gold Bx 3201		Av. Commandante 301, Lima, Peru
Schort, Donald Reece	JR	MEA	2405 Clark Ave.	TE2-6543	1065 17 Ave., N.W., Hickory, NC
Schott, Henry Joseph, Jr.	SO	EE	216C Bragaw Bx 15288	TE4-9123	608 Park Ave., Ayden, NC
Schout, James William	FR	MEA	64 Tucker Bx 4814		1000 Sedgefield Rd., Charlotte, NC
Schreuder, Hans Tynen	GR	FOR			Hameraveld, Holland
Schwander, Eric Lee	SO	ARC	304 E. Park Dr.		418 W. End Rd., So. Orange, NJ
Schultheis, John Frederick	SR	EST	Bx 5494	828-0298	730 Woodland Rd., Raleigh, NC
Schultheisse, Barry Norman	SO	AMA	304C Bragaw Bx 15316		728 Peridale Dr., High Point, NC
Schultz, Elvin Dale	SR	ME			600 Oakgrove Dr., Graham, NC
Schultz, Owen Edmund	GR	AMA	356 Wilmot Dr.		356 Wilmot Dr., Raleigh, NC
Schumacher, Thomas John	GR	EE	325 Middleton, Cary	467-1344	325 Middleton Ave., Cary, NC
Schutt, Carl Bernard	SR	ME	921 W. South St.		315 N. 16th St., Wilmington, NC
Schwartz, William Christopher	FR	TC	119 Syme Bx 3519		Rt. 1, Castle Hayne, NC
Schweers, Andrew Philip	SO	CE	304 Horne St.	TE3-3171	3662 Southdale Ave., Winston-Salem,
Sicely, Gerald Frank	FR	RPA	222 Owen Box 4477	TE2-9410	123 S. Lucust St., Mt. Carmel, PA
Scofield, Michael Smith	SO	TXT		828-9181	102 Macon Ave., Asheville, NC
Seaggins, James Hester	JR	NE	2514 Clark Ave.	TE2-9198	314 Park Ave., Clinton, NC
Scott, Bobby Gene	JR	PPT	217 Jones-Franklin	828-5994	217 Jones-Franklin Rd., Raleigh, NC
Scott, Claude Edward, III	SO	MEA	109D Bragaw		700 Wiltshire Rd., Winston-Salem, NC
Scott, Donald Carver	JR	ASC	1712 Scales St.	VAS-5379	224 Belvedere St., Carlisle, PA
Scott, Elsie Willis	ME	GS	918 Dixie Trail	VAS-5974	918 Dixie Trail, Raleigh, NC
Scott, Parrell Wayne	SR	ME	Bx 5422	H07-5752	2430 Waterbury St., Winston-Salem,
Scott, Garland Elmo, Jr.	MR	CRE	2700 Cartier Dr.	833-5058	2700 Cartier Dr., Raleigh, NC
Scott, George Richard, Jr.	JR	PY	127 Syme Bx 3527		2511 Cornell Ave., Charlotte, NC
Scott, Hubert Donovan	FR	AED	Alexander Bx 4108		Rt. 3, Kenly, NC
Scott, James Richard	SO	MEA	210 Hawthorne		3907 Glenville Ave., Charlotte, NC
Scott, John Elwood			134 Kilgore		Box 42, Method, NC
Scott, Joseph Franklin	JR	AGI	Bx 4832		Rt. 3, Kenly, NC
Scott, Ralph, Jr.	GR	MED	337 Turlington	832-9192	Rt. 3, Kinston, NC
Scott, Roger Dale	FE	EE	Tucker Bx 4673	TE2-9388	Rt. 4, Mt. Airy, NC
Scott, Samuel DeVon, III	MR	AMA	308 Horne St.	TE3-6697	Gapway Rd., Fair Bluff, NC
Scruggs, Russell Broughton	SO	AGI	17 Glenwood Ave.		Rt. 4, Shelby, NC
Scull, Reese Sherrod	EN	FTM	313C Bragaw		Box 504, Valdeese, NC
Seabock, Carlton Wayne	FR	NE	8 Becton Bx 3810	TE2-9261	458 W. Main St., Franklin, NC
Seagle, Jee Ben	SR	PPT			211 Bristol St., Morganton, NC
Seals, Robert Kincaid, Jr.	FE	MEA	107 Tucker Bx 4620	TE2-9367	1346 Sanford Rd., Columbia, SC
Searcy, Charles Ray	FE	ME	64 Owen		Box 11, Gerton, NC
Searcy, Kenneth Ray	JR	IE	111A Bragaw Bx 15021		425 S. Center St., Draper, NC
Searle, Donald Turner	DR	EST	606 Cornwall, Cary	H07-9286	606 Cornwall Rd., Cary, NC
Sears, Billy Leonard	JR	TXT	1305 Duplin Rd.	VAS-7993	1305 Duplin Rd., Raleigh, NC
Sears, Charles Leyburn, Jr.	SO	ARC	127 W. Park Dr.	828-7973	Rt. 2, Box 48, Rockwell, NC
Sears, James Matthew	SR	EE	Rt. 1, Cary		Box 121 Rt. 3, Goldsboro, NC
Sears, William Winston	ME	ARC	309 Bagwell Bx 3375		RFD 1, Morrisville, NC
Seaton, John Edgar	FR	ENG	Tucker Bx 4733	TE2-9387	1210 Frances St., Elizabeth City, NC
Seawright, David Stephen	JR	CE	2612 Clark Ave.	TE2-9484	3800 Warrington Dr., Charlotte, NC
Seay, William Michael	JR	CEC	205 Tayler St.	828-7054	98 Arthur Rd., Asheville, NC
Sehrest, Walter Steven	SO	EE	120 Chamberlain St.		202 Lakewood Dr., Lexington, NC
Sehrist, Douglas Barriett	FR	EE	720 Chamberlain St.	TE4-9387	Rt. 7 Glen Echo, Statesville, NC
Seegers, George Samuel	SR	PD	1341 Chester Rd.		1239 Goodwin Ave., Charlotte, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Cefidvash, Frank	MR	NE	5 Dixie Trail	TE2-9927	5 Dixie Trail, Raleigh, NC
Cegui, Joe Gordon		AGI			64 Miruel, St. Augustine, FLA
Ceiferheld, Alan David	SO	FL	106 Ashe Ave.		138 Thames St., New London, CONN
Ceitz, Henry William, Jr.	SO	MEA	104 Dixie Trail	TE3-3558	Rt. 3 Box 148, Newton, NC
Celf, Edwin Dwight	FR	MEU	5315 Orchard St.	VAB-3092	Rt. 1, Siler City, NC
Celf, Jerry Lee	JR	PPT	bx 15107	TE4-9179	Rt. 1, Casar, NC
Celf, John Carroll		ARC	112 Watauga	TE2-9447	103 White Dr., Mebane, NC
Celf, Lee Scott	DR	ENT	2504 Vanderbilt	TE2-2369	672 Timm Valley Rd., Atlanta, GA
Celf, Ostia Ralph		CE	315 Orchard St.	VAB-3092	5313 Orchard St., Raleigh, NC
Celf, Robert Lee, III	FR	AMA	204 Owen Bx 4461	832-9252	1510 Garfield Rd., Burlington, NC
Sellers, James Ray	FR	RPA	Bx 4184		Rt. 1, Lilesville, NC
Selman, Frank Leonard	GR		2241 Noble Rd.		2241 Noble Rd., Raleigh, NC
Senn, Charles David	SO	AGI	112 Turlington Bx 4209		Rt. 3, Newberry, SC
Senter, Harold Butler	SO	ARC	1313 Dale St.	TE4-9628	1313 Dale St., Raleigh, NC
Senter, Herman Frank	SO	TXT	115 Hawthorne Rd.		631 Lamar Ave., Charlotte, NC
Serrell, Morton Albert	SO	MeA	307 Tucker Bx 4740	TE4-9739	126 Scofield Rd., Charlotte, NC
El Jerry, Ahmed El-Jayed	MR	TXT	3413 Hillsboro St.	833-8391	3413 Hillsboro St., Raleigh, NC
Sesoms, Richard Andrew	SO	ME			Box 323, Apex, NC
Setliff, Jason Carmack	SK	POM			401 Griffie St., Cary, NC
Settlemyre, Carl Thomas	DR	ANS	4011 Edwards Mill Rd.		3590 McClain Rd., Lima, Peru
Setzer, George Edward	SR	CE	132 Woodburn Rd.		1116 Tipton St., High Point, NC
Setzer, George John	SO	POM	338 Owen Bx 4552	TE4-9300	176 Rosney Ave., Somerset, NJ
Setzer, Steve Leslie	FR	ARC	327 Bagwell		1319 Kentucky Ave., High Point, NC
Sewell, Walter Adams	FR	ME	165 Owen	TE2-9115	1411 Woodland Dr., Durham, NC
Sexton, Buddy Bryant					Rt. 3, Denton, NC
Sexton, James Harvey	SR	ME	3904 Arrow Dr.	833-8781	231 White St., Hendersonville, NC
Shacntman, Richard Hyman	SR	AMA	A-8 Fincastrle Apts.		601 S. Phelpa Dr., Winter Park, FLA
Shackelford, Neal Henry, Jr.	SO	CEC	353 Owen Bx 4564	TE4-9300	Box 105, Alamance, NC
Shaffner, Thomas Jackson	JR	PY	318D Bragaw Bx 15346	TE4-9253	217 Pine Valley Rd., Winston-Salem,
Shail, Michael Joseph	FR	FOR	326 Tucker	TE4-9739	13 Grandview Ave., Bethel, CONN
Shamoot, Saad Abdo	DR	SSC			Dr. Shamoot Clinic, Amman, Jordan
Shanker, Mark Hanna	SO	TXT	130 Hawthorne Rd.	832-9151	1022 Loft Rd., Woodmere, NY
Shankle, Arthur Thompson	MR	EE	715 Catawba St.	833-4741	715 Catawba St., Raleigh, NC
Shankle, Rebecca Jane	UN	OS	1402 Chester Rd.	TE2-5639	1402 Chester Rd., Raleigh, NC
Shankle, Sally Jeannette	JR	ASK	1402 Chester Rd.	TE2-5639	1402 Chester Rd., Raleigh, NC
Shannon, Gloria James, Jr.	SO	ME	402A Bragaw Bx 15363		Kitty Hawk, NC
El Shawkawi, Abdelkattah	MR	AMA	1164 Croveland Ave.	TE4-3344	Monsah Ashmoun, Menofish, Egypt
Shaw, Archie Ward	MR	FF	210 Cox Ave.	TE4-6679	Kohafa, Tanta, Egypt, UAR
Sharma, Mahabir Pershad	MR	ANS	2320 Clark Ave.		Narnaul, Narnaul, Punjab, India
Sharp, David Reid	FR	EE	320 Owen	TE4-9300	Box 11143, Greensboro, NC
Sharp, Jack Lawrence	SO	IA	127 Hawthorne		3811 Dogwood Dr., Greensboro, NC
Sharp, William Fredrick, Jr.	SO	UN	2228 Hillsboro St.	TE3-5082	Box 11143, Greensboro, NC
Sharpe, Tommy Joode	JR	EE	8 Ferndell Lane	TE2-1755	654 Bost St., Statesville, NC
Sharp, William Robert, Jr.	SR	NE	116 Syme Bx 3516	TE4-2493	2506 McNeill Cir., Fayetteville, NC
Shaver, Darryl Lane	SR	TC	125 Brooks Ave.	828-6328	204 W. 28th St., Charlotte, NC
Shaw, Archie Ward	MR	CS	1435 Beaver Dam Rd.	TE2-1047	1435 Beaver Dam Rd., Raleigh, NC
Shaw, Barry Allen	JR	IE	2210 1/2 Hope St.	TE2-1550	1507 Garfield Rd., Burlington, NC
Shaw, John Quincy	JR	ATO	410D Bragaw Bx 15382		Rt. 6 Box 122, Durham, NC
Shaw, Robert Melvin	GR	ANS	Rt. 5	834-8537	Evergreen, NC
Shearin, Robert Bruce	JR		2612 Clark Ave.	TE2-9484	1213 Pearce St., Raleigh, NC
Shearin, Rudolph Thaddeus	FR	ME	Bx 4569	TE4-9300	Rt. 2, Whitakers, NC
Shearon, Winston T., Jr.	SR	AMA	2330 Lyon St.	TE2-3409	2330 Lyon St., Raleigh, NC
Sheehan, John Anthony	SO	EE	125 Cox Ave.		310 W. Marsh St., Salisbury, NC
Shenfield, Gary Singleton	MR	MTE	2100 Van Lyke Ave.	VAB-8012	1805 Madison Ave., Greensboro, NC
Shell, Edward Cleveland, III	FR	NE	143 Owen Bx 4436	TE2-9437	2115 S. Ashland Dr., Burlington, NC
Shelton, David Walter	JR	NE	116 Syme Bx 3516	TE4-2493	4718 Southwin Dr., Winston-Salem, NC
Shelton, Edward Gene	SO	MEA	122 Turlington Bx 4219	TE4-9279	2717 Levedale Ave., Winston-Salem,
Shelton, Henry Hugh	SK	TXT	2211 Hope St.	TE4-1782	Box 99 1/2 Rt. 1, Hobgood, NC
Shelton, Johnny Dale			116 Alexander	TE2-9257	1429 E. Main St., Albemarle, NC
Shelton, Paul Wilson, Jr.	JR	ME	3906 N. Blvd.	832-8574	Box 152, Pilot Mountain, NC
Shelton, Robert Warren	FR	PY	Tucker Bx 4802		225 S. Hillcrest Dr., Goldsboro, NC
Shelton, Robert Willard	FR		304 Syme Bx 3568		Rt. 1, Madison, NC
Shelton, Thomas Roscoe	JR	ATP	Syme Bx 3579	TE2-9222	Rt. 1, Madison, NC
Shenk, Sheldon Wayne	SR	AK	1014 Canterbury Rd.		520 Ted Dr., Falls Church, VA
Shepard, Arthur James	FR	PL	H-23 MSH	VAB-8845	Mt. Castle Apt., Waynesville, NC
Shepard, David Wayne	SO	FOR	302 Turlington		730 E. Innes, Salisbury, NC
Shepherd, James Edward	SR	ME	Bx 4318	TE2-9364	Rt. 1, Whiteett, NC
Shepherd, Marshal Gordon	FR	EE	209 Fourth Bx 3121	TE2-9159	1418 Glenwood Ave., Raleigh, NC
Sheppard, Ronald Kalin	FR	TAT	Stadium Bx 4346		609 Baker Road, High Point, NC
Sheppard, William Larry	FR	EE	319 Syme Bx 3583	TE2-9322	1745 Bethabara, Winston-Salem, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Sherman, Lemuel Gordon	FR	MEA	1414 Oakwood Ave.	TE3-0153	1414 Oakwood Ave., Raleigh, NC
Sherman, Stephen Warner	SR	AMA	207 Syme	832-9150	209 Canterbury Rd., Jacksonville, NC
Sherrard, David Gibson	FR	MEA	48 Tucker		617 Lakeview Dr., Falls Church, VA
Sherrill, Bobby Lewis	JR	ME			1719 16th St. N.E., Hickory, NC
Sherrill, Karl Merritt	FR	TXT	306 Owen	TE4-9300	722 N. Main St., Davidson, NC
Sherrill, Martin Lloyd	FR	AGI	331 Becton Bx 3799	TE2-9179	Rt. 1, Garner, NC
Sherrill, Wilson Alexander, II	JR	MEA	7 Enterprise St.	TE4-0435	Terrell, NC
Sherrill, Wilson Wesley, Jr.	FR	ME	128 Owen Bx 4423	TE2-9437	Rt. 3 Box 474, Morganton, NC
Shields, John Andrew	SO	MEA	131 Syme Bx 3531	TE2-9287	247 Trade St., Tryon, NC
Shields, Robert Frank	SR	ME	1217 Kent Rd.	828-6091	202 Dillard, Mebane, NC
Shields, Maynard Earl	GR	OIG	320 Latimer Rd.	828-8855	320 Latimer Rd., Raleigh, NC
Shillinglaw, John Preston, Jr.	SO	CHE	119A Bragaw Bx 5033		632 Chestnut St., Rock Hill, SC
Shinn, Pearson Stewart, III	JR	CE	324 Alexander		1324 Wayne Dr., Annandale, VA
Shinn, Robert Weathersbee	SR	TXT	2709 Bedford Ave.	TE2-0387	2709 Bedford Ave., Raleigh, NC
Shirley, George Richard, Jr.	SO	CE	320A Bragaw Bx 15347	TE4-9253	1410 Bellevue St., Greensboro, NC
Shive, Philip A.		ARC	130 Cox Ave.		Scotts, NC
Shives, Byron Larry	SO	MTE	121A Bragaw Bx 15037		Rt. 1 Box 356, Salisbury, NC
Shoaf, James Terrell	FR	IA	12 Berry Bx 4345	TE2-9350	700 Brookside Dr., High Point, NC
Shook, David Harold	JR	AMA	111 Turlington Bx 4208	TE4-9279	220 Armfield St., Statesville, NC
Shook, David Lynn	SO	FM	8 Ferndell Lane	832-7153	79 28th St. N.W., Hickory, NC
Shore, Henry Bascom	SR	CE	123D Bragaw Bx 15044		Rt. 2, East Bend, NC
Shore, Jerry Keith	FR	AGI	115 Hawthorne Rd.		Rt. 1, Haw River, NC
Shore, John Benjamin	SR	ME	123L Bragaw Bx 15044		Rt. 8 Box 103, Winston-Salem, NC
Short, William Thomas	SR	TXT	Rt. 7 Box 133		Rt. 2, Henderson, NC
Shotton, Douglas R.	SR	CEC	3414 Hillsboro St.	VA8-9181	604 Riverview, Suffolk, VA
Shotwell, James Fleetwood, Jr.	JR	POM	151 Tucker Bx 4558	TE2-9388	Rt. 2, Roxboro, NC
Showlars, Philip Edison	JR	AED	309 Bragaw Bx 15119	TE4-9179	Rt. 5, Kinston, NC
Shouse, Jerry Howard	SO	ATH	233 Becton Bx 3767	TE2-9334	Rt. 1 Box 75, Winston-Salem, NC
Shouse, Gary Gilbert	FR	EE	Bx 4747	TE4-9739	4503 Old Rural Hall Rd., Winston-Salem, NC
Shewalter, Ralph Edwin	JR	AMA	Bx 3782	TE2-9372	139 Walnut St., Arden, NC
Shreve, David Carr	SR	MEA	801 W. Pineland	828-9763	801 Pineland Dr., W., Raleigh, NC
Shue, James Eugene	FR	AED	Bx 15284	TE4-9213	Rt. 2 Box 712, Salisbury, NC
Shuffler, Martha Elizabeth	SO	ASZ	2329 McMullan Cir.	TE4-2289	2329 McMullan Cir., Raleigh, NC
Shuford, Edgar Randall	FR	EE	324 Syme Bx 3588	832-9222	Rt. 2 Box 241, Canton, NC
Shuford, Gordon Eric, Jr.	SO	EE	420A Bragaw Bx 15400	TE4-9754	Box 767, Hickory, NC
Shukla, Agam Prakash	MR	APY	Garland Dr.		Soami Bagh, Agra, U.P., India
Shuler, John Barr	GR	CE	714 Faircloth St.	TE2-7684	714 Faircloth St., Raleigh, NC
Shuller, Edgar Ralph, Jr.	PR	CE	405 Puresch St.	TE4-5437	425 Durant Dr., Fayetteville, NC
Shuller, Robert North	JR	ARC	322 Bagwell	834-9151	425 Durant Dr., Fayetteville, NC
Shum, Raymond Hing-Tan	GR	NE	2726 Clark Ave.		Fung Kit Heung, Yuen Long, Hong Kong
Shumaker, Carl Arthur	JR	MTE	1122 Park Dr.		307 Maupin Ave., Salisbury, NC
Shuping, Gene Dwight	FR	EST	364 Tucker Bx 4791	TE2-9323	Rt. 2 Box 742, Salisbury, NC
Shuping, Russell Lee	SR	IE	204B Bragaw Bx 15264	TE4-9123	Rt. 1 Box 983, Valdeese, NC
Sides, Larry Walter	JR	ASW	106 Bagwell Bx 3306	TE4-9219	1313 Helen Ave., New Bern, NC
Sides, William Curtis, Jr.	JR	CEC	111 Turlington Bx 4208	TE4-9279	4415 Country Club Rd., Winston-Salem
Sides, William Hutton	SR	NE	115 Tucker Bx 4626		2102 Walker Ave., Greensboro, NC
Siebury, Robert H.	FR	ARC	112 Watauga		2250 Colony Rd., Charlotte, NC
Simon, Arville Jenkins	SR	AGE	155 Tucker	TE2-9388	Rt. 1, Newton, NC
Simon, Charles Nelson	SR	CEC	J-14 McKimmon Vill.	832-2223	Rt. 2, Mooresville, NC
Sills, Ernest Karl	SO	ARC	3106 Douglas St.		1050 13th Ave. N.W., Hickory, NC
Sills, James Robert, Jr.	JR	TXT	7 Enterprise	TE4-0435	58 Randolph Rd., Shelby, NC
Sills, Titus Odell, Jr.	SR	MTE	H-13 McKimmon Vill.	828-4063	H-13 McKimmon Vill., Raleigh, NC
Silver, Mary Ida	FR	SED	16 Horne St.		Rt. 2, Kenly, NC
Silver, Nellie Jane	SO	CHE	16 Horne St.		Box 393 Rt. 2, Kenly, NC
Silverman, Robert	JR	ARC	304 E. Park Dr.	TE2-7638	779 Madison Ave., Union, NJ
Simerson, Hayden Curtis	JR	PPT			Rt. 1 Box 121A, Salisbury, NC
Simmons, Gary Joe	FR	ARC	415D Bragaw Bx 15185	TE4-9757	Box 294, Westfield, NC
Simmons, Jonny Melvin	SO	ME	202 Berry Bx 4309		326 Baldwin Rd., Burlington, NC
Simmons, William Gaston	JR	ATH	316B Bragaw Bx 15340	TE4-9253	Albertson, NC
Simms, Elizabeth Manny	MR	RS	925 Tower St.	TE4-6821	925 Tower St., Raleigh, NC
Simms, Lorraine Glenn	GR	OIG	1340 Chester Rd.		1340 Chester Rd., Raleigh, NC
Simms, Marvin Leroy	MR	IPS	6 Ferndell Lane	TE2-2265	224 Harwood Ave., Syracuse, NY
Simon, George Sead	JR	EE	324B Bragaw Bx 15356		1130 Cumberland Ave., Gastonia, NC
Simon, James Richard	SO	EE	1304 Hillsboro St.		Box 31, Rosemont, W.VA
Simpson, Harold Gray	SO	MAA	204 Hillsboro St.		1532 Front St., Beaufort, NC
Simpson, Patrick Craig	FR	GS	709 Currituck	TE4-0813	709 Currituck, Raleigh, NC
Simpson, Robert E.	GR	EST	9064 Canterbury Rd.	833-0300	9064 Canterbury Rd., Raleigh, NC
Simpson, William Golden	JR	POM	Rt. 1, Cary		113 Brinkley Ave., Plymouth, NC
Simpson, William W.	SR	ME	308 N. Briggs Durham		308 N. Briggs Ave., Durham, NC
Sims, John Davis, Jr.	JR	ARC	2612 Clark Ave.	TE2-9484	Box 344, Troutman, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Smith, Hovie Julian	SO	AED	64 Owen Bx 4598	TE2-9142	Rt. 1, Wingate, NC
Smith, Hugu Roy, Jr.	FR	ABO			221 Smith St., Cornelius, NC
Smith, James Andrew	SR	IE	911 Brooks Ave.	833-2431	Box 209 Price Rd., Leaksville, NC
Smith, James David	SO	CHE	215 Turlington Bx 4243	TE2-9297	Rt. 2, Benson, NC
Smith, James Edward	JR	EE	Bx 1520		16 Miller Rd., Asheville, NC
Smith, James E.	SO	AMA	407B Bragaw	TE4-9754	618 W. Graham St., Shelby, NC
Smith, James Harold	SO	IATO	211B Bragaw Bx 15070		306 E. Anderson St., Selma, NC
Smith, James Stanley	SO	CE	4200 Bragaw		3019 N. Tuckahoe St., Arrington, VA
Smith, Jan Bryan	FR	CE			Rt. 2, Marshville, NC
Smith, Jarvis Wallace	FR	ME	229 Owen Bx 4484	TE2-9410	124 Herndon St., Fayetteville, NC
Smith, Jennings Bryan, Jr.	SR	AED	UK-29 Vetville	TE2-0271	UK-29 Vetville, Raleigh, NC
Smith, Jerry Wayne	SR	ME	Bx 15355		Box 514, Brown Summit, NC
Smith, Jimmy Bain	FR	CE	398 Tucker Bx 4768	TE2-9323	RFD 1, Fairmont, NC
Smith, John Jordan	FR	TAT	Bragaw Bx 15375	TE4-9754	Bethel, NC
Smith, John Knox	PRO	ARC	1117 Filmore St.	833-4747	1117 Filmore St., Raleigh, NC
Smith, John Raymond	JR	MEA	3207 1/2 Bedford Ave.		910 Faculty St., Boone, NC
Smith, John Wilbur	JR	RPA	1600 1/2 Brooks Ave.	TE2-4511	Princeton, NC
Smith, Joseph Emory	FR	ARC	Bx 4782	TE4-9739	Rt. 1 Box 119, Newport, NC
Smith, Joseph Nolan	FR	AGI	314 Tucker Bx 4750	TE2-9323	Rt. 3, Lexington, NC
Smith, Joseph Ronald	SR	ME	103 Chamberlain		2321 Danbury Rd., Greensboro, NC
Smith, Joseph Vaden	SO	CHE	Owen Bx 4489	TE2-9410	Rt. 1 Box 405, Mt. Airy, NC
Smith, Keller, Jr.	JR	ARC	207 welon Bx 3255	TE2-9119	1723 Laurel Ave., Knoxville, TENN
Smith, Kelly Eugene	FR	CHE	115 Becton Bx 3715	TE2-9256	Plymale Pl., Altavista, VA
Smith, Kenneth Carroll	FR	ABA	231 Alexander Bx 4160	TE4-9746	803 Pine Tree Dr., New Bern, NC
Smith, Kenneth Roop, Jr.			182 Horne St.	828-5698	182 Horne St., Raleigh, NC
Smith, Larry Baxter	MR	CE	104 Horne St.	TE4-0964	Marshville, NC
Smith, Leonard Alvin, Jr.	SR	TAT	2045 Clark Ave.	828-7723	27130 Clark Ave., Raleigh, NC
Smith, Lynda Louise	TC		2720 Everett Ave.	TE2-5030	125 Leo Dr., Mt. Holly, NC
Smith, Malcolm Louis	FR	EE	4502 Van Dyke Ave.		916 Big Bethel Rd., Hampton, VA
Smith, Max Gale	JR	CE	405 Furches St.	TE4-5437	Rt. 6, Winston-Salem, NC
Smith, Michael Wayland	FR	EE	214 Syme Bx 3546	832-9150	1423 Pine Valley Loop, Fayetteville, NC
Smith, Michael Wayne	JR	AEC	106 Berry Bx 4306	TE2-9350	1814 Lombardy Cir., Charlotte, NC
Smith, Norman Wade	SR	CH	211 Hawthorne Rd.	828-9143	Rt. 1 Box 68, Rocky Mount, NC
Smith, Otto Claude	SR	ME	L-24 MSH	VA8-4027	L-24 MSH, NCSC, Raleigh, NC
Smith, Owen Franklin, Jr.	SR	IE	122 Perquimans Dr.	TE2-1337	122 Perquimans Dr., Raleigh, NC
Smith, Owen James	GR	NE	325A Bragaw		51 Hopkins St., Newport News, VA
Smith, Reuben Talmage	SR	TXT	Bx 5722		215 S. Elm, Asheboro, NC
Smith, Renne Lee	JR	PY	Bx 15025	TE2-9179	Rt. 2, Elon College, NC
Smith, Richard Haywood	FR	AGR	1329 Mayfair Rd.	TE2-3531	1329 Mayfair Rd., Raleigh, NC
Smith, Richard Kelly, Jr.	FR	RPA	318 Syme Bx 3582	832-9222	Rt. 4, Lincolnton, NC
Smith, Richard Marshall	FR	MED	129 Alexander		1300 Arlington Ridge, Arlington, VA
Smith, Ritchie Francis	FR	AED	Owen Bx 4562	TE3-9300	Rt. 1, Fuquay Springs, NC
Smith, Robert Bunnell	FR	CE	Becton Bx 3816	832-9261	1101 Coval Rd., Waycross, GA
Smith, Robert Clifford	MR	FOR	Box 393, Cary	VA8-6616	Rt. 1 Box 393, Cary, NC
Smith, Robert Howard, Jr.	JK	CHE	Q-303 MSH		1907 Greenbriar Rd., Kinston, NC
Smith, Robert Jones	GR	AMA	1710 Hillsboro St.	TE4-2001	177 Lakeshore Dr., Asheville, NC
Smith, Robert Lee	FR	CE	318 Bagwell Bx 3384	834-9151	Rt. 1, Troutman, NC
Smith, Robert Scott	FR	IE	2 Stadium Bx 4347		1360 Carolyn Dr., Charlotte, NC
Smith, Robert Wright	SO	CHE	421C Bragaw Bx 15196		208 E. College St., Ayden, NC
Smith, Roger Horace	MR	GN	3115 Douglas St.	TE3-3770	Rt. 5 Box 8, Yakima, WASH
Smith, Ronald Ellis	MR	CE	2003 Correll Dr.	TE3-5463	530 E. Ridge St., Rocky Mount, NC
Smith, Ronald Stewart	FR	IE	349 Owen Bx 4560	834-9436	1400 Dilworth Rd., Charlotte, NC
Smith, Roy Oliver			107 E. Ransom		107 E. Ransom St., Fuquay Springs, NC
Smith, Stanley Gilbert	JR	FMH	103 Chamberlain Rd.		Rt. 1 Box 550, Hickory, NC
Smith, Thomas Lee		IED	Bx 4738		Rt. 8, Sanford, NC
Smith, Thomas Manly	MR	EE	3314 Pollock Pl.	TE2-0847	917 Tatum Dr., New Bern, NC
Smith, Thomas Nicholls	SR	MEA	1225 1/2 Duplin Rd.	833-9814	303 Watson St., Windsor, NC
Smith, Thomas Pritch			2211 Hope St.		34 Water St., Swansboro, NC
Smith, Thomas Ray	SR	TXT	602 Dixie Trail		Rt. 3, Dunn, NC
Smith, Wallace Edward	SO	EE	2953 Winchester Ct.	828-9848	2953 Winchester Ct., Raleigh, NC
Smith, Walter Tilford	JR	NE	1622 Park Dr.	TE2-3489	129 James River Dr., Newport News, VA
Smith, William Anthony	SO	MEA	16 Maiden Lane	TE4-7574	245 Carter Cir., Winston-Salem, NC
Smith, William Barry	SR	MEA	315C Bragaw	TE4-9179	Rt. 2, Box 324, Kings Mtn., NC
Smith, William Carter	GR	RS	827 Jones Ave.	TE4-0540	827 Jones Ave., Raleigh, NC
Smith, William Edmond	MR	WT	11 Dixie Ave.	834-6165	2029 Bill's Dr., Jacksonville, FLA
Smith, William Edward, III	MR	APY	1401 Sycamore St.	834-0786	405 S. Pineview, Goldsboro, NC
Smith, William Garrison	FR	EE	147 Tucker		4708 Gilmore Dr., Charlotte, NC
Smith, William Hill	FR	EE	20 Shepherd St.	TE3-9334	Box 2229, Spartanburg, SC
Smith, William Sidney	JR	ME	2611 Clark Ave.		621 Norfolk St., Rocky Mount, NC
Smith, Woodie Clinton	SO	EE	610 Devereux St.	828-5188	610 Devereux St., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Smith, Woodrow Atkins	FR	ME	158 Owen Bx 4449	TE2-9437	Rt. 2, Garland, NC
Smith, Zane Everett	SO	ME	127 Beeton		117 N. Columbus St., Chapel Hill, NC
Smithson, Thomas David	SO	CE	P-305 McKimmon Vill.		Rt. 2, East Bend, NC
Smithson, Charles George	FR	EO	203 Owen	TE2-9110	1827 Fairview Blvd., Winston-Salem, NC
Smithson, John W. E.	MR	OE	116 Welch Bx 3246	TE2-9119	118 N. 7th St., Smithfield, NC
Smok, Charles Roland	SO	PPT	133 Burlington Bx 4228	834-9274	1159 Gloria St., Orangeburg, SC
Smyre, Ted Perry	SO	1E	408C Bragaw	TE4-9754	Box 292, Conover, NC
Smyre, Brennan Eugene	FR	TKT	181 Tucker Bx 4672		18 Carey Rd., Great Neck, NY
Smyth, Robert Albert	FR	CE	Bx 3024		Salisbury, Denton, NC
Smyth, William Henry	SR	PY	bx 1024	TE2-9132	Box 44, Denton, NC
Snakenburg, John Stuart	JR	PY	2503 Van Dyke Ave.	TE3-5118	2503 Van Dyke Ave., Raleigh, NC
Snead, Ainton Thomas	FR	NE	206 Bagwell	832-9131	416 Warren St., Williamston, NC
Snead, Younger Fletcher, Jr.	SR	KPA	100 Faircloth St.	832-3057	403 W. Prospect Ave., Raeford, NC
Snead, Robert Herman	SO	FOM	123 Bagwell Ave.	828-2252	228 Virginia Ave., Henderson, NC
Sneak, Atsalon West	DR	AGE	824 Herrie Rd.	VA8-9849	824 Herrie Rd., Raleigh, NC
Snell, Linwood Howell, Jr.	FR	MSA	2833 Barmettler	TE3-0636	2833 Barmettler St., Raleigh, NC
Snell, Richard Fargo	SO	PY	2601 Clark Ave.	TE4-9631	1201 Walnut St., Lumberton, NC
Snelson, Franklin Fielder	SO	ASW	324 Turlington	TE2-9297	41. 5 Box 212, Richmond, VA
Snider, Edgar Howard, Jr.	JR	MEC	1512 Simpkins St.	TE3-2688	509 Ashe St., High Point, NC
Snider, Jerry Emanuel	SR	TC	1616 Hillsboro St.	TE3-5281	Rt. 2 Box 100, Lexington, NC
Snipes, Edward Grady, Jr.	SO	ME	107 Syme Bx 3507	832-9288	Box 3507, NCSC, Raleigh, NC
Snipes, James Vance, Jr.	SO	EE	211A Bragaw Bx 15069	TE2-9185	Rt. 1, Haw River, NC
Snow, Glenn Austin	GR	PPT	2722 Dorchester Ct.		127 Troutman Ave., Long Beach, MISS
Snow, Jerry Paul	FR	MEA	332 Owen	TE4-9300	Toant, NC
Snow, Robert Eric	JR	EE	329 Turlington Bx 4291	TE2-9192	2507 Cherokee Lane, Winston-Salem, NC
Snow, Silas Jones	SO	RPA	Bragaw Bx 15391	TE2-8391	841 W. Haven Blvd., Rocky Mt., NC
Snowden, Wendell Curtis	GR				3525 Jewel, Middletown, OHIO
Snyder, Jerry Lee	GR	WT	2405 Glenwood Ave.		Rt. 1 Box 214, St. Albans, W.VA.
Snyder, Paul Junior	SO	CEC	Syme Bx 3536	832-9150	Rt. 2 Box 140, Chapel Hill, NC
Snyder, Richard Rodgers	FR	E	308 Tucker Bx 4741	TE4-9739	21 E. Bald Eagle St., Lock Haven, PA
Sochacki, Robert Joseph	FR	TKT	1323 Brooks Ave.	TE3-4868	1323 Brooks Ave., Raleigh, NC
Soden, John Voehlis	SO	1E	Bx 5433	TE2-1231	2306 Lyon St., Raleigh, NC
Soden, Robert Demarest	SR	AMA	Bx 5433	TE2-1231	2306 Lyon St., Raleigh, NC
Sopardi, Goswond	MR	SSC	704 Harris St.	832-4655	704 Harris St., Raleigh, NC
Soraker, David David	DR	AL			230 Copacabana-Pueblo Libre, Lima, 1
Soles, John Marvin	SR	AEU	C-14 McKimmon Vill.		Rt. 2, Whiteville, NC
Solomon, Martin	FR	TKT	159 Tucker Bx 4666	TE2-9367	4094 Ocean Ave., Brooklyn, NY
Soma, Sanae	GR	UN	Q-202 McKimmon Vill.	VA8-6038	Q-202 McKimmon Vill., Raleigh, NC
Somers, Claude Samuel	FR	ENG	202 Owen Bx 4459	TE2-9410	1214 Barnes St., Reidsville, NC
Somers, Henry Walter, Jr.	SO	TC	306B Bragaw Bx 15319	TE4-9253	104 Tarleton Ave., Burlington, NC
Sorrey, Andrew Edward, Jr.	JR	ME	228 Syme Bx 3500	832-9150	Box 80, Castle Hayne, NC
Sorrell, Clyde Ralph	FR	EE	211A Bragaw Bx 15120	TE4-9141	Rt. 4 Box 447, Durham, NC
Sorrell, Donnell Wilson	JR	EE			Rt. 1, Morrisville, NC
Sorrell, John Joseph	SO	RPA	141 Tucker		25 Poplar St., Passaic, NJ
Sorrell, Victor Garland	SO	ME	1266 Bragaw	VA8-5578	1266 Bragaw Bx 15319, NC
Sorrell, Willie Thomas	FR	GS			210 W. Woodall St., Benson, NC
Sorrell, Wendell Arthur	FR	IA			Box 215, Clayton, NC
Sorrell, Wendell Arthur	SR	CEC	2140 Mayview Rd.	TE4-4960	65 Coleman Ave., Asheville, NC
Sorels, Clyde Benjamin	JR	CHB	108 Alexander Bx 4144	TE2-9349	Box 43, Gilkey, NC
Sossamon, James Lee	JR	MEA	108 B Bragaw Bx 15302		Box 175, Bryson City, NC
South, William David	SR	PPT	130 Owen	TE2-9437	Saluda, VA
Southard, William Dean	FR	MSA	299 Owen	TE2-9367	716 Branton Dr., Shelby, NC
Southards, Carroll Junior	GR	FI	3318 Octavia St.	828-2094	3318 Octavia St., Raleigh, NC
Southwell, Hymnach Malcolm	FR	EE	204 Owen	832-9252	101 W. Woodall St., Benson, NC
Southern, Eugene Henry	GR	EE	220A Bragaw Bx 15294	TE4-9123	Rt. 5, Reidsville, NC
Spahr, Peter Adolf	FR	TKT	Bx 5802		2000 Cairo, Cairo, Egypt, UAR
Spahi, Mohamed Adnan	FR	TKT	405 Brooks Ave.	TE2-6183	Moustapha Kamel St. #7, Alexandria, Egypt, UAR
Spain, Thomas Alton	SO	ARC	207 Welch	TE2-9119	611 Tyrone Ave., Wilmington, DEL
Spangenberg, James Emanuel	SO	MSA	130 Hawthorne St.		469 W. Harper Ave., Lenoir, NC
Spangenberg, Richard David	SR	ATI	P-305 McKimmon Vill.		Rt. 1 Box 435, Shelby, NC
Sparks, Berel Ray	JR	MSA	2226 Hillsboro St.	TE4-6309	Q-313 MSH, NCSC, Raleigh, NC
Sparks, Marvin Wilton	SO	ME	1226 Hillsboro St.	828-2916	Box 175, Cliffside, NC
Sparks, William George	SO	CHB	222 Alexander	TE2-9257	Charles Rd., Shelby, NC
Sparks, William George	JR	AMA	115B Bragaw	TE4-9129	145 Chenault Rd., Lexington, KY
Spears, James Carey	SO	ARC			Rt. 3, Hertford, NC
Spearsman, Lawrence Ashley	SO	ARC	113 Alanna Bldg.		1507 Oakland Ave., Durham, NC
Spears, Nancy Marion	FR	PI	2314 Hillsboro St.	833-0821	Tobaccoville, NC
Speer, Larry Scott	FR	ME	211 Bragaw		Box 861, Marion, NC
Speight, John Franklin	SR	ASR	2514 Clark Ave.	Box-9149	123 Poplar St. S.W., Winston-Salem, NC
Spell, Theadie Carlton	SO	GE	Watauga Bx 3053		Rt. 1, Reesboro, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Spence, James Thornwell	MR	APY	1408 Hillsboro St.	TE2-5745	1600 Cornwallis Dr., Greensboro, NC
Spence, William McKay	SR	AMA	2713 Rosedale Ave.	828-2415	910 Martin Dr., Concord, NC
Spencer, Carroll Wilson	FR	ASC	137 Alexander Bx 4129		RFD 1, Paison, NC
Spencer, Clara Frances		FSM	2120 White Oak Rd.	TE2-8695	Rt. 1 Box 108, Matthews, NC
Spencer, Dennis Ouell	SO	CHE	1066 Bragaw Bx 15222	TE4-7428	1048 17th Ave. N.W., Hickory, NC
Spencer, Edwin Valencourt, Jr.	SR	IATO	Bragaw Bx 15214		412 Hawthorne Ln., Wallingford, PA
Spencer, Joe Hubert	FR	ENG	252 Owen Bx 4503	832-9252	2320 Dickens Ave., Charlotte, NC
Spencer, Joseph Milton	SO	FOM			629 Llewellyn Pl., Charlotte, NC
Spencer, James Harris	JR	EE	990 Wilmington Ter.	VA8-6681	990 Wilmington Ter., Raleigh, NC
Spencer, Randall Wheelless	JR	EE	129 Owen Bx 4424	TE2-9115	538 Hunter St., Madison, NC
Spencer, James Alpheus	DR	PF	5234 Vann St.	834-7924	Rt. 1 Box 117, Ola, ARK
Spicer, James Edgar	JR	AED	2517 Clark Ave.	TE3-7580	Rt. 2 Box 188, Eldkin, NC
Spiegel, David Daniel	JR	TKT	311 Syme Box 3575	TE2-9222	48 Park Edge Ave., Springfield, MASS
Spiers, Davis Bryant	SG	FOR	211 Alexander	TE4-9746	412 Meadow Lane, Franklin, VA
Spinks, Albert Hunter	GR	EE	1217 Courtland Dr.	828-2734	1217 Courtland Dr., Raleigh, NC
Spoon, Joe Frank	SO	TC	4170 Bragaw Bx 15188	TE4-3909	Rt. 3, Liberty, NC
Spooner, William Edward	SR	MED	2608 Newbold St.	VA8-8652	1901 Wolcott Ave., Wilmington, NC
Springer, Arthur Conrad	JR	AMA	418B Bragaw Bx 15397	TE4-9754	3009 Collier Dr., Greensboro, NC
Springer, Carroll Von	SO	FY	4110 Bragaw Bx 15176	TE4-9757	900 Brookhurst Dr., Charlotte, NC
Springle, James Richard	FR	EE	1027 W. South St.	TE3-1249	1027 W. South St., Raleigh, NC
Sprinkle, Charles Elwood, Jr.	FR	A			Pfafftown, NC
Sprinkle, Gerald Lee	FR	ABF	Bx 3312		Rt. 2, Hiddenite, NC
Spruill, Mervin Lynn	JR	AMA	325D Bragaw, Bx 15152		80 Nicewood Dr., Newport News, VA
Spry, Darrell Leon	UN	GS	Bx 4413	TE2-9437	Rt. 3, China Grove, NC
Sraga, Michael David	SR	FOM	Bx 4251	TE2-9297	14 Valley Ave., Newburgh, NY
Stacey, Robert Eugene	DR	ANS	215J Jones-Franklin	TE2-8698	5 Sewell Ave., Hampton, VA
Stack, Victor Gene	UN	GS	Bx 4424	TE2-9115	Rt. 1, Julian, NC
Stadler, David Eugene	JR	ATC	Bx 15023	TE2-9129	Rt. 7 Box 517, Burlington, NC
Starker, Klaus Otto	FR	EE	P-210 MSH		P-210 MSH, NCSC, Raleigh, NC
Stafford, Donald Bennett	MR	CE	P-110 McKimmon Vill.		Rt. 1, Kernersville, NC
Stafford, Jacob Alpheus	SR	ASE	2109 Myrtle Ave.	TE2-8754	Rt. 5, Elizabeth City, NC
Stagner, Tommy Gene	SO	EE	Berry Bx 4328	TE2-9363	Box 1784, Beaumont, TEXAS
Stallup, Winston Churchill	SR	ME	324A Bragaw Bx 15355		Rt. 2, Murphy, NC
Stall, Joseph	JR	PFM	3414 Hillsboro St.	828-9181	20 Woodland Way Cir., Greenville, SC
Stallings, Charles Henry	SR	PY	250A Vanderbilt Ave.	VA8-5333	650 Rockbridge St., Bluefield, W.VA.
Stallings, David Warren	MR	ME	P-112 McKimmon Vill.	828-6107	112 June St., Thomasville, NC
Stallings, Ernest Maylon	GR	AGC	217 Gray St., Cary	H07-3495	217 Gray St., Cary, NC
Stallings, Horace Lee, Jr.	FR	AGI	43 Owen Bx 4578	832-9742	Hobbsville, NC
Stallings, Larry Nelson	SO	EE	bragaw Bx 15097	TE2-9185	Rt. 2, Selma, NC
Stallings, Lester Robert	SO	CEC	204 Fourth	TE2-1843	Rt. 7, Winston-Salem, NC
Stallings, Robert Lee	SR	TKT	225A Bragaw	TE2-9185	Bex 313, Gibsonville, NC
Stalmaker, Clair B.	MR	AEC	Box 393, Cary	828-6616	501 W. Main St., West Union, W.VA.
Staman, James W.	GR	PSY	3110 Douglas St.	828-3195	3110 Douglas St., Raleigh, NC
Stamey, Ronald Gene	SR	EE	203 Alexander Bx 4135	TE4-9746	1001 Skeet Club Rd., High Point, NC
Stamm, Alfred John	SR	PY	3212 Wayne St.	TE2-5170	3212 Wayne St., Raleigh, NC
Stamp, James Lee	SR	CEC	M-14 MSH	833-0420	Circle Dr. Motel, Jacksonville, NC
Stamper, Gilbert Weaver	FR	EE	Alexander Bx 4126		3901 Carmel Acres, Charlotte, NC
Stamper, Robert Knighton	SO	NE	Bx 15163		509 Biltmore Pl., Portsmouth, NC
Stancil, William Alfred	SR	ARC	2514 Clark Ave.	TE2-9148	321 S. Howell, Rocky Mount, NC
Stanford, Alvin Mercer	GR		J-16 McKimmon Vill.	828-5616	J-16 McKimmon Vill., Raleigh, NC
Stanley, Aubrey Mae	FR	AGI	152 Owen Bx 4443	TE2-9437	Beaverdam, VA
Stanley, Albert Jackson	JR	GHE	919 W. South St.	TE2-2702	1712 Bremser Ave., Salisbury, NC
Stanley, Charles Paul	SR	IA	1156 Georgetown Rd.		1156 George town Rd., Raleigh, NC
Stanley, Jack Walter, Jr.	SO	CE	Bx 3245		1505 Textile Dr., Greensboro, NC
Stanley, Kenneth Arvol	FR	E	2820 Mayview Rd.	TE3-4112	RFD 5, Shelby, NC
Stanley, Maurice Ferrell	FR	PY	Bx 4561	TE4-9300	Box 296, Clyde, NC
Stanley, Nancy W.	UN	GS	1156 Georgetown Rd.		1156 Georgetown Rd., Raleigh, NC
Stanley, Sidney Ronald	FR	AGI	Bx 3615	TE2-9421	Rt. 2, Carthage, NC
Stanley, William Daniel	DR	EE	Rt. 1, Cary	H07-1400	Rt. 1 Box 81, Bladenboro, NC
Stansel, Benjamin Carrol	SR	FOM	4006 Greenleaf St.		RFD 5 Box 87, Lumberton, NC
Stanton, William McKimmon	GR	FOR			1106 Park Ave., Garner, NC
Staples, Bennett Layton	FR	EE	5208 Olive Rd.	TE4-0436	5208 Olive Rd., Raleigh, NC
Starcher, Barry Chapin	DR	AI	406 Chamberlain	828-5673	406 Chamberlain St., Raleigh, NC
Starin, Jon Conner	FR	AMA	Bx 4756	TE4-9739	3321 Foxhall Rd., Columbia, SC
Starke, Francis McDonald	SR	TKT	1066 Nichols Dr.	833-8309	1066 Nichols Dr., Raleigh, NC
Starnes, Lawson Wright	SR	FOM	2718 Clark Ave.	TE2-6451	587 Morning St., Worthington, OHIO
Starr, Peter Paul	SR	RPA	Bagwell Bx 3380		527 W. Arlington St., Shenandoah, PA
Staton, Buell Eugene	MR	EE	3334 Friar Tuck Rd.	833-7302	3334 Friar Tuck Rd., Raleigh, NC
Staton, Raymond Clifford, Jr.	JR	CEC	3200 Hillsboro St.	828-3167	723 Fifth Ave. W., Hendersonville, NC
Stayton, Charles Lewis	MR	WT	4421 North Blvd.	832-5673	RR2, Aitkin, MINN

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Steagall, Darrell Conrad	SO	TXT	1508 Frank St.		Rt. 2, Leakeville, NC
Steagall, David Julian	JR	CHL	2514 Clark Ave. Bx 5665		1220 Bethel Rd., Charlotte, NC
Stee, John Charles	FR	ABC	10 Berry Bx 4343	TE2-9350	819 Myrtle Rd., Charleston, W.VA.
Steele, Davis Landon	FR	AMA	1807 St. Mary's	TE4-7857	1807 St. Mary's St., Raleigh, NC
Steele, James Findlay, Jr.	JR	CE	220 Bagwell Bx 3352	TE2-9131	204 Russell Rd., Alexandria, VA
Steele, James Gaston, Jr.	SO	EE	236 Tucker Bx 4706	TE4-9828	204 Dogwood Lane, Belmont, NC
Steele, John Hamilton	SK	CEC	703 Wade Ave.	TE3-7355	114 Abernathy St., Lenoir, NC
Steele, Ronald Wayne	SO	ME	Bx 5566	TE2-9103	N-2 Mayfair Apts., Burlington, NC
Steelman, Harvey Leroy	JR	TXT	6 Dixie Trail		Rt. 3 Box 160, Kannapolis, NC
Stein, Lynn Paige	JR	CEC	2426 Hillsboro	834-9859	Rt. 1 Box 288, Wagram, NC
Steenburgh, Charles Joseph	FR	EE	222 N. Person St.		Pioneer St., Amsterdam, NY
Stephens, Thomas Louis	SO	AG	326 Becton Bx 3794		Wooemmoosa Rd., Pennington, NJ
Steifel, Sidney Gray, Jr.	SO	IE	2512 Clark Ave.	TE2-4843	2868 Wesleyan Ln., Winston-Salem, NC
Steinberg, David Ronald	SR	EE	3109 Hillsboro St.		316 McAllister St., Fayetteville, NC
Steinberg, Robert Michael	JR	AMA	304C Park Dr.		828 Addison St., Woodmere, NY
Steinbaker, George David	FR	LA	9 Stadium Bx 4354		9920 Thornwood, Kensington, MD
Steinmiller, William George	MR	TC	909 1/2 W. Lenoir		909 1/2 W. Lenoir St., Raleigh, NC
Stenhouse, James Alan	SO	CE	16 Horne St.		1323 Townes Rd., Charlotte, NC
Stephanakis, Stavros John	SR	EE	3019 1/2 Hillsboro St.	VA8-8990	Tenedou 45, Athens, Greece
Stephens, Joseph Edwin	SO	MEA	310A Bragaw Bx 15326		305 W. 11th St., Wilmington, DE
Stephens, Philip Craig			4 Berry	TE2-9350	1221 Horne St., Rocky Mount, NC
Stephens, Ralph Ellis	SR	ME	109 E. Aycock St.		Rt. 2, Morganton, NC
Stephenson, Emerle Franklin	SO	IA	114 1/2 E. Park Dr.		Rt. 1 Box 172A, Como, NC
Stephenson, James Caidman	SR	CEC	2005 Glenwood Ave.	TE2-4459	2005 Glenwood Ave., Raleigh, NC
Stephenson, James Donnie	GR	ABC	Bx 4410		Rt. 1, Willow Springs, NC
Stephenson, Jerry Lawton	FR	ME	332 Tucker Bx 4763	TE4-9739	113 Robin Rd., Jacksonville, NC
Stephenson, Larry Cordell	FR	EE	114 Watauga Bx 3014	TE2-9447	Rt. 3, Benson, NC
Stephenson, Larry Sherrill	FR	ASC			Rt. 2, Angier, NC
Stephenson, Margaret Long	JR	AMA	114 1/2 E. Park Dr.		Rt. 1 Box 172A, Como, NC
Stephenson, Roy Colon	SR	RFA	3325 Briarcliff Rd.	VA8-8615	3325 Briarcliff Rd., Raleigh, NC
Stephenson, Thomas Crayton	SO	AGI			Rt. 1, Holly Springs, NC
Stephenson, William Albert	PK	GS	2900 Glasgow St.	828-4141	2900 Glasgow St., Raleigh, NC
Stapp, Michael Reid	SR	NE	Bx 15017		7 Pine St., Canton, NC
Stappe, Donald Ivory	JR	IATO	801 W. Morgan St.		Box 402, Marion, NC
Stappe, James Alan	SO	EE	302 Welch Bx 3262		795 Martin St., Valdese, NC
Stevens, Bryan Stanley	FR	ME	202 Gold Bx 3214	TE2-9263	RFD 3, Loris, SC
Stevens, Clyde Benny	FR	EE	Tucker Bx 4796	832-9186	Box 584, Lincolnton, NC
Stevens, Grady Harold	FR	EE		TE2-9757	812 S. Adams Dr., Gastonia, NC
Stevens, John Gehret	JR	CH	Bx 15150		541 Jacksonville Rd., Mt. Holly, NJ
Stevens, Keith Brooklyn	JR	ME	202 Gold Bx 3214	TE2-9263	Rt. 3, Loris, SC
Stevens, Mary Alice	MR	PF	17 Bagwell Ave.	833-4419	Bee Tree Rd., Swannanoa, NC
Stevens, Terrell Everett	FR	NE	2320 Lyon St.	TE4-1405	2320 Lyon St., Raleigh, NC
Stevenson, Charles Gwen	JR	AMA	20 Syme	TE2-9421	Palmyra, NC
Stevenson, James Frederick	GR	CE	2 Logan Ct.	TE2-3544	Box 4, Palmyra, NC
Steward, Herman Petro, Jr.	SO	ME	Bragaw Bx 15139		Rt. 1, Walkertown, NC
Stewart, Floyd Grant	SR	TXT	2514 Vanderbilt Ave.	828-7638	627 Robertson Ave., Charlotte, NC
Stewart, George Colon	SR	ABD			Box 35, Mannern, NC
Stewart, James Alvin	FR		Box 4785	TE2-9323	Rt. 1, Liberty, NC
Stewart, Joe Jackson	DR	NE	C-21 MSH	TE4-8766	Box 1388, Lakeland, FLA
Stewart, Kermit Harold	SR	IATO	2343 Grant Ave.	TE4-5088	2343 Grant Ave., Raleigh, NC
Stewart, Larry Wayne	FR	ME	2512 Clark Ave.	TE2-4843	309 W. Main St., Elkin, NC
Stewart, Peggy Lou	SR	CH	2513 Trawick Rd.	TE2-2717	4518 Franklin Rd., Charlotte, NC
Stewart, Robert Turnage	SO	ME	2505 Country Club Ct.	TE4-5876	2505 Country Club Ct., Raleigh, NC
Stewart, Stephen Harold	FR	ABC	209 Syme Bx 3541		Box 96, Linville, NC
Stewart, Thomas Hamilton	SO	EE	264 Owen Bx 4515	TE2-9410	Rt. 2 Box 101, Henderson, NC
Stikeleather, Larry Franklin	JR	ASE			Rt. 1, Stony Point, NC
Stikeleather, Walter Jeffrey	FR	ME	235 Owen Bx 4489	TE2-9410	Rt. 3 Box 87, Statesville, NC
Stikeleather, Wade Eugene	SO	ABE	210 Owen	TE2-9410	Rt. 1, Stony Point, NC
Stimpson, Robert Thomas	SO	CEC	105 Turlington		2320 New St., Washington, NC
Stinner, Ronald Edwin	SO	ASN	104A Bragaw Bx 15215	TE2-9180	972 Leeds Dr., N. Bellmore, NY
Stipes, Roland Jay	DR	PP	P-301 MSH	828-6064	Box 18, Garrison, PA
Stocks, William Matlock	SO	NE		TE4-9123	Hookerton, NC
Stockton, George Arthur	JR	EE	337 Owen	TE4-9300	817 Roslyn Rd., Winston-Salem, NC
Stoker, Joel William	FR	TXT	401D Bragaw Bx 15156		108 Ludlow St., Albemarle, NC
Stokes, Eaton Smith, Jr.	FR	A	Bx 4626	TE2-9367	Linwood, NC
Stokes, Jack Wilson, Jr.	JR	MEA	2609 Clark Ave.	TE4-1384	807 West Rd., Kinston, NC
Stokes, Stephen James	FR	ME	Tucker Bx 4812		Rt. 9 Box 93, Winston-Salem, NC
Stokes, William Frederick	SR	CE	409 Chamberlain St.		Rt. 3 Box 577, Greenville, NC
Stoller, Edward William	DR	SSC	F-25 McKimmon Vill.	828-7657	Indianola, NEB
Stolt, Robert Dean	SO	EE	U-14 McKimmon Vill.	832-4740	513 S. Simons St., Cadillac, MICH

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Stone, Charles J.	SR	IATO	UK-35 Vetville	TE3-6990	UK-35 Vetville, Raleigh, NC
Stone, David Ray	SO	NE	210 Owen Bx 4467	TE2-9410	Rt. 1, Stony Point, NC
Stone, Harry W.	FR	PY	218 Owen Bx 4473		26 Summit Rd., Sparta, NJ
Stone, Jerry Leonard	JR	ASB	Berry Bx 4306	832-8603	3605 Garner Rd., Raleigh, NC
Stone, Joseph Bowling	FR	CHE	Bagwell Bx 3339	832-9131	Rt. 3 Box 232A, Durham, NC
Stone, Margaret Jones	GR	MED	1869 W. Smallwood Dr.		Box 6839, Durham, NC
Stone, Paul Samuel	DR	AGC	1405 Ashburton Rd.	VA8-9805	1405 Ashburton Rd., Raleigh, NC
Stone, Tommy Lynn	SO	FOM			Rt. 1, Rowland, NC
Stoneypher, Roy Wesley	GR	FOR	2820 Van Dyke Ave.	VA8-6364	2820 Van Dyke Ave., Raleigh, NC
Stoner, James Everette, Jr.	JR	EE	101C Bragaw Bx 15003	TE2-9129	Rt. 3 Box 217A, Concord, NC
Stoner, Robert Glenn, Jr.	SO	CH	107 Owen Bx 4404	TE2-9437	Rt. 1 Box 198, Richfield, NC
Storaaska, John Frederic	SO	CHE	2601 Clark Ave.	TE2-8631	540 East St., Bloomsburg, PA
Storey, James Romulus	SO	CH	121 Alexander Ex 4102		2215 Arrington Dr., Durham, NC
Statesbury, Jerry Wayne	FR	ZE	254 Tucker Bx 4721	TE2-9387	109 Brinkley Pl., Plymouth, NC
Stott, Douglas Leroy	SO	ARC	303 Syme	832-9222	Box 709, Greenville, NC
Stoudmire, Stewart McBryde	JR	PD	107 YMCA		Rt. 3, Lincolnton, NC
Stough, Frank Jackson	SO	ME			Box 11, Woodleaf, NC
Stout, David Lee	SO	CEC	317 Turlington	TE2-9192	Rt. 3 Box 326, Durham, NC
Stout, Garland Herbert	SO	EE	122 Hawthorne St.	834-5838	1209 Hill St., Greensboro, NC
Stowe, David Henry	SO	MEA	401A Bragaw Bx 15153		South Point Rd., Belmont, NC
Stowe, Gerry Francis	SO	TC	227 Alexander	TEL-9716	811 Carolyn Ave., Kannapolis, NC
Stowe, Joseph Cullen, Jr.	FR	CHE	139 Owen Bx 4433	832-9115	804 Hylan Ave., Hamlet, NC
Strange, George Lovell	SR	FOM	203 Hillcrest Rd.	TE2-8587	3008 Collier Dr., Greensboro, NC
Straughn, Arthur Belknap	FR	ARC	113 Syme Bx 3513	832-9288	1016 Highland Woods, Chapel Hill, NC
Straus, Walter Paul	CHE	254 Tucker Bx 4721		TE2-9387	Grandview Rd., Brevard, NC
Strawbridge, James Edward	UN	GS	221 Dacian Ave.		221 Dacian Ave., Durham, NC
Strawn, Dale Hiram	SR	MED	125 Hawthorne	TE2-1183	3645 Dresden Dr. E., Charlotte, NC
Stredler, Steven Allen	JR	CHE	227 Turlington Bx 4255	TE2-9297	526 Little Creek Rd. W., Norfolk, VA
Stressau, Fred E.	JR	LA	Bx 3558	TE2-9150	912 S.E. 11th St., Ft. Lauderdale, FL
Strickhouser, Robert Douglas		AGI	1301 Hillsboro St.		1733 Amherst Pl., Charlotte, NC
Strickland, John Gordon	FR	EST	Owen Bx 4488	832-9252	Rt. 2, Spring Hope, NC
Strickland, Roderick Paul	JR	ABC	Beeton Bx 3802	TE2-9322	Rt. 4, Zebulon, NC
Strickland, Roger Privette, Jr.	JR	EST	49 Owen Bx 4583	TE2-9142	Rt. 2, Bailey, NC
Strickland, Thomas Edward, Jr.	FR	TAT	129 Tucker Bx 4640	TE2-9367	501 Emerywood Dr., High Point, NC
Strobel, Roger William	SR	LA	2807 1/2 Lewis Farm Rd.	VA8-7996	2807 1/2 Lewis Farm Rd., Raleigh, NC
Strong, Lewis Moore	SR	ME	2714 Cooleemee Dr.	TE3-9064	2714 Cooleemee Dr., Raleigh, NC
Strother, Louis Elliott	GS	310 Redwood Dr.		TE3-2492	310 Redwood Dr., Raleigh, NC
Strother, Robert Weyman	FR		Tucker Bx 4780		1/7 Clinton Ave., Dobbs Ferry, NY
Stroud, Eric Stephen	SO	ME	2316 Hillsboro St.	833-5587	Rt. 1, Ellenboro, NC
Stroud, Jerry Max	SR	AGI	Alexander 118	TE2-9557	Rt. 1, Pink Hill, NC
Stroud, Linwood Earl	FR	CE	5 Stadium Bx 4350		601 Terminal St., Kinston, NC
Stroud, Richard Sidney	SR	LE	308 Horne St.	TE2-7050	609 Terrace Dr., Ayden, NC
Stroup, Fred Albert	FR	CEC	Bx 4334		Rt. 4 Box 19, Morganton, NC
Streup, Thomas Frank	SO	PPT	122C Bragaw		207 Montview Cir., Brevard, NC
Strum, Jack Conner	SO	CHL	Bragaw Bx 15407		Rt. 3 Box 119, Rocky Mount, NC
Strupe, Eugene Frank	FR	LE	67 Owen		Rt. 1, Tobaccoville, NC
Stuart, David Heath	SO	AMA	Bx 5566	832-9102	2520 Greenbriar Rd., Winston-Salem, NC
Stuart, David Lawrence	FR	MEA	Bx 15333		Box 157, Metawan, W.VA.
Stuart, Jay C.	JR	EE	2A Dixie Trail		Elkin, NC
Stuber, Charles William	DR	GN	1800 Manuel St.	828-2870	Rt. 2, Shelton, NEB
Stucker, Robert Evan	DR	CS	1311 Beaver Dam Rd.	TE3-3901	RR 4, Mt. Pleasant, IOWA
Stump, Chad McElanahan	FR	PFT	Tryon Rd. Bx 5566	TE2-9102	2138 Rivermont Ave., Lynchburg, VA
Sturgeon, Ronald Eugene	DR	CHL	2131 North Blvd.	TE2-6893	4026 Norbourne Blvd., Louisville, KY
Sturiale, Louis Angelo	JK	ME	1216 Jones-Franklin	VA8-6408	1216 Jones-Franklin Rd., Raleigh, NC
Stutts, Floyd Thomas	FR	MIA	208B Bragaw		601 Joseph Terr., Greensboro, NC
Stutts, Johnny Elliott	SO	GS	307B Bragaw Bx 15113		Rt. 1, Morrisville, NC
Syfers, C. Neil	SO	ME	327 Alexander		1527 Kidwood, Gastonia, NC
Sucher, William Paul	JR	IE	304 E. Park Dr.	TE2-7638	810 Bryant St., Woodmere, NY
Suchousky, Warren Henry	MR	AGC	1213 Dixie Trail	TEL-7564	Stephenson, MICH
Sugge, Julius Delane	SO	IA	6 Ferndell Lane	TE2-2265	Box 371, Elizabethtown, NC
Sugge, Ralph Lawrence	SO	TXT	Bx 15409		Rt. 2, Gastonia, NC
Suh, Moon Won	GR	TXT	10 Dixie Trail		1-Ka Bomoondong, Seoul, Korea
Suitt, Clifton Bruce	JR	AMA	123B Bragaw		1432 Cyrus Dr., Charlotte, NC
Sukandar, Djokosudardio	UN	A	704 Harris St.	832-4655	d.Jl. Dr. Semeru 32, Bogor, Indonesia
Sulaiman, Asham Sultan					Baghdad, Iraq
Sullivan, Albert Gray	SO	EE	Bx 15189	TEL-3909	862 16th St. N.E., Hickory, NC
Sullivan, James Joseph	JR	ME	125 Hawthorne Rd.		Rt. 1, Hobgood, NC
Sullivan, John Lennon, Jr.	FR	ME	362 Owen Bx 4573	TEL-9300	906 Tremont Rd., Wilson, NC
Sullivan, John Leo, Jr.	FR	EE	122 Tucker	TE2-9367	644 Reynolds Dr., Charlotte, NC
Sullivan, Richard Ray	JR	ME	208 Ashe Ave.	TE3-8550	Rt. 1 Box 225, Hampstead, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Sullivan, Thomas	SO	ME	312 Alexander Bx 4755		5600 Hickory Grove Rd., Charlotte, NC
Sullivan, William Andrew	SO	PY	2701 Vanderbilt Ave.	834-7523	2713 Vanderbilt Ave., Raleigh, NC
Sullivan, William Taylor	SO	MA	1301 Alexander		535 Maryaret Dr., Statesville, NC
Summer, Larry Lester	FR	CE	h-11 McKimmon Vill.	834-6916	305 S. Elm St., Cherryville, NC
Summerlin, John David	SO	ME	111 Brooks St.	TE1-4608	502 Williams St., Kinston, NC
Summerlin, Fred William, Jr.	SO	EE	47 Owen	TE2-0142	Rt. 1, Monroe, NC
Summers, Michael Kent	FR	CE	327 Becton Bx 3795		Rt. 2 Box 94, Greensboro, NC
Summers, Paul Eugene, Jr.	SR	EE	3123 Stanhope Ave.	828-8939	419 Newcomb St. S.E., Washington, DC
Summers, Richard Lee	SO	NE	2206 Anderson Dr.		660 Rayner, Toledo, OHIO
Summerville, Kenneth Saborn	UN	POM	Bx 5723	832-8624	Box 5732, Raleigh, NC
Sunney, William Jenkins	SR	ATA	111 Becton	TE2-9256	Rt. 1, Dallas, NC
Sussatt, Henry Ben	SO	TKT	2730 Van Dyke St.	TE2-1868	705 E. Main St., Cherryville, NC
Sutner, Charles Thomas	SO	ARC	203 Bagwell Bx 3335		2324 Vernon Dr., Charlotte, NC
Sut, Al Mo	GR	ME	16 Maiden Lane	TE4-7574	234 Chi-lsien 3rd Rd., Taiwan, CHII
Suvaranto, Johannes	GR	AST	7 Dixie Dr.		Semarang, Indonesia
Sutrock, David Albert	JR	ARC	202 Syme		829 Bonman Ave., Wynnewood, PA
Susnett, Robert Carl	SO	NE	424C Bragaw Bx 15410	TE4-9754	515 Franklin Blvd., Greensboro, NC
Sutcliffe, David Gregg	JR	EE	1508 Frank St.		423 W. Kime St., Burlington, NC
Sutcliffe, Henry Russell	ME	MA	234C Bagwell Bx 3364	832-9131	834 14 St. Dr. S.W., Hickory, NC
Sutcliffe, Atticus Edwin		TC	112 Syme Bx 3512		20 W. Randolph Rd., Shelby, NC
Sutton, Glenn Harold	MA	ME	700 E. Whitaker Mill	TE3-5797	700 E. Whitaker Mill Rd., Raleigh, NC
Sutton, Marvin Burdette	JR	ONE	1907 1/2 Alexander Rd.	828-0223	5905 Tuskegees Dr., Charlotte, NC
Sutton, Claude Iverett	SO	PUR	2228 Hillsboro	833-5082	2228 Hillsboro St., Raleigh, NC
Swain, James Gray	SO	EE	Bx 19154		Box 123, Elkin, NC
Swain, James Maxwell	FR	CE	317 Bagwell Bx 3383	834-9151	1302 Woodland Ave., Sanford, NC
Swain, Barry Stephen	SO	EE	13 Syme Bx 3609	TE2-9421	Rt. 1, Walkertown, NC
Swain, David Allen	SR	PY	2405 Clark Ave.	TE2-2177	1516 Jarvis St., Raleigh, NC
Swain, James Warren	SO	AT	3060 Bragaw		Rt. 1 Box 175, Columbia, NC
Swain, Linda Carole	SO	GS	1814 Oberlin Rd.	TE3-2495	1814 Oberlin Rd., Raleigh, NC
Swain, Thomas Tyson	SO	GS	125 Burlington Bx 4222	TE4-9279	2604 Saddle Club Rd., Burlington, NC
Swaney, Carlton Lawrence	FR	TAT	Tucker Bx 4657	TE2-9388	Rt. 1, Claremont, NC
Swank, John Daley, II	SR	EE	2715 Kilgore Ave.		202 Third St., Pittsborough 25, PA
Swanson, Merrill Reinhold	JR	EST	B-43 HIGH	834-8124	RR 2 Box 48, Belvidere, ILL
Swanson, Walter Woodfield	SO	EE	207 Syme Bx 3539	832-9155	716 8th St. N.E., Hickory, NC
Swartz, Robert Mace Jr.	FR	DM	1221 Gunnison Pl.	832-3107	1221 Gunnison Pl., Raleigh, NC
Swett, Frank Marion, Jr.	SO	GS			118 E. South St., Wake Forest, NC
Swenson, Henry Arthur	FR	A	Bx 3773	TE2-9372	Rt. 6 Box 474, Salisbury, NC
Swinegod, Myrle Lutterloh	GR	RS	109 N. King Charles	TE3-6759	109 N. King Charles Rd., Raleigh, NC
Swindel, Benge Frank	JR	EST	2300 Van Dyke Ave.		141 Pulaski Hts., Athens, GA
Swindell, Robert Malcolm	FR	CH	1500 Hillsboro St.	TE2-0267	1500 Hillsboro St., Raleigh, NC
Swing, Foil David, III	SO	MEA	720 Chamberlain St.		110 Sunrise Ave., Lexington, NC
Swink, James Carl	SR	ME		TE4-9378	Rt. 2, Wadesboro, NC
Swink, Joseph Edward	FR	MA	323 Bagwell		214 Cypress, Wendell, NC
Swink, Robert Eugene	SO	EE	Bx 3305	TE2-9114	Rt. 1 Box 154, Tazewellville, NC
Swykes, Larry Moore	FR	AGE	330 Tucker Bx 4761	TE2-9323	RFD 1, Castalia, NC
Swykes, Robert Frederick	FR	MEB	Owen	TE2-9142	Rt. 2 Box 10, Waverly, NC
Sylvant, James William	FR	EE	Bx 3554	TE2-9119	Box 63, Steadman, NC
Sylvester, Francisco Pautrat	NK	MA	2727 Avent Ferry Rd.		Laj Acacias 185-E, Lima, Peru
Syman, Owen William	SO	CE	231 Becton Bx 3765	TE2-9334	418 Leon St., Durham, NC
Symington, Arthur Wendell	FR	MA	301 Tucker Bx 4734		11 Box 100, New Brunswick, NJ
Tabor, Christopher Alan	GR	POR	1-17 McKimmon Vill.	832-9300	Box 85, Kenansville, NC
Tadcoos, George	FR	NE	117 Becton Bx 3717		Papados, Mytilene, Greece
Tadlock, William Andrew	SR	ATP	2707 Avent Ferry Rd.		PRD 4, Windsor, NC
Taft, Kingsley Arter, Jr.	FR	POR	707 Cornwall, Cary	832-9242	707 Cornwall Rd., Cary, NC
Talbot, Robert William	FR	MEA	319 Owen		606 Rollins Ave., Hamlet, NC
Talbot, Abdelfattah Mohamood	GR	MA	9 Bagwell Ave.	VA8-7560	W. 10th St., Washington, DC
Talbot, Robert Lee	JR	ATP	Tucker Bx 4797	TE2-9237	Rt. 2, Stanfield, NC
Tally, Hubert Larry	FR	ATP			Rt. 1, Bear Creek, NC
Tan, James Chien-Hua	GR	TA	2730 Van Dyke Ave.		18-2-78 1st Sect. Hoping W. Rd., Taipei, Taiwan
Tandon, Rajee Kumar	ME	TE			New T.G. Civil Lines, Lucknow, India
Tang, Ing Mao	JR	NE	2726 Clark Ave.	TE3-1482	Formosa, China
Tankard, John Rodgers	JR	ARC	1821 Glenwood Ave.	TE2-8089	2742 N. Wakefield St., Arlington, VA
Tanner, John Albert	FR	MEA	Bx 4274	832-9192	Forest Heights, Siler City, NC
Tanner, William Jacob	JR	MA	Bx 4274	TE2-9437	Box 231, Morlina, NC
Tarrell, Robert	JR	ARC	421 N. Blount St.	TE2-0457	Kadikoy, Istanbul, Turkey
Tant, Dwight Stevenson	FR	EE			Rt. 2, Zebulon, NC
Tant, William Earl	UN				214 Gray St., Cary, NC
Tasker, Paul Donald	FR	AMA	113 Becton	TE2-9256	10884 Scott Mill Rd., Jacksonville, F
Taris, Sukru Tormis	ME	TE	Bx 5764		Box 100, 100, Ankara, Turkey
Tarver, George Clark	FR	A	Weldon Bx 3403	TE2-9119	Camden, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Tarleton, John William	JR	CEC	Q-204 McKimmon Vill.	832-2049	Rt. 3, Monroe, NC
Tarrant, James Green, Jr.	SR	RPA			830 S. Chestnut St., Henderson, NC
Tart, Howard Gale			237 Tucker Bx 4707		502 S. Layton Ave., Dunn, NC
Tart, James Layton		FMH			Box 842, Wendell, NC
Tart, Ronald Wayne	FR	FOR	Welch Bx 3267	TE2-9119	Rt. 1, Newton Grove, NC
Tart, William Golden, Jr.	SR	EE	McSwain Trailer Pk. Cary	467-1387	Rt. 2, Benson, NC
Tate, Charles Alexander, Jr.	SR	CH	133 Bagwell Ave.	834-2847	9 Barnard Dr., Wilmington, NC
Tate, Charles Lucy	SR	FCM	bragaw Bx 15089		Box 67, Chadbourne, NC
Tate, Eugene McCulloch	JR	FOM	1720 Hillsboro	828-9200	Box 1275, Wilmington, NC
Tate, Harold Vernon, Jr.	SO	FOR	301 Fourth Bx 3127	TE2-9159	406 Spruce St., Farmville, VA
Tate, Jimmy Dean	JR	ABA	307 Syme Bx 3571	TE2-9222	Box 535, Belmont, NC
Tatum, Alfred Norwood	SO	PD	14 Syme	TE2-9421	408 West St., Pittsboro, NC
Tayloe, Charles Langley	FR	CE	306 Bagwell	834-9151	Rt. 2 Box 8, Ahoskie, NC
Taylor, Andrew Jackson	FR	CL	210 Becton Bx 3744	TE2-9334	107 W. 13th St., Washington, NC
Taylor, Boyd Fredric	JR	CE	121 Owen Bx 4416		913 Meade Dr., Greensboro, NC
Taylor, Carl Edwin, Jr.	SR	ME	204C Bragaw Bx 15256	TE4-9123	2428 Monroe St., Wilmington, NC
Taylor, David Gladney	FR	MKA	318 Owen Bx 4533	TE4-9300	2309 Kenmore Ave., Charlotte, NC
Taylor, Dewey Franklin	SR	ASR	718 Brooks Ave.	834-3529	Box 172, Pine Level, NC
Taylor, Donald Wayne	SR	EE			Rt. 1, Varina, NC
Taylor, Douglas Wilder	JR	ASC	12 1/2 Bagwell Ave.	828-2352	Rt. 2, Whitakers, NC
Taylor, Earl Leroy	JK	CE	2614 Bedford Ave.	TE3-9945	2614 Bedford Ave., Raleigh, NC
Taylor, Edward Benjamin	FR	EE	Watauga Bx 3028		1609 Seabrook Rd., Fayetteville, NC
Taylor, Fred William	GR	WT	2307 Barmettler St.	VA8-2989	2307 Barmettler St., Raleigh, NC
Taylor, Harry Adams	FR	PY	106 Watauga Bx 3006	TE2-9447	1408 E. Walnut St., Goldsboro, NC
Taylor, Henry Clay, III	SR	ARC	1508 Hillsboro St.	TE2-6153	Box 26, Louisburg, NC
Taylor, Howard Kelly, Jr.	SO	IE	2232 Hillsboro St.	TE3-8716	Box 324, Como, NC
Taylor, James Bryant	FR	CE	212 Owen Bx 4468	TE2-9410	Rt. 2, Box 416, Lenoir, NC
Taylor, James Franklin	GR	EMT	Box 374, Cary		100 Blumenthal, Murphy, NC
Taylor, Jerome Burton	SR	ASZ	217 Gardner St.	TE3-2212	217 Gardner St., Raleigh, NC
Taylor, John Andrew, Jr.	SR	LS	6 Berry Bx 4339	TE2-9350	600 S. Pine St., Rocky Mount, NC
Taylor, John LeRoy	SO	EE	232 Bagwell Bx 3364	832-9131	Conway, NC
Taylor, John Thomas	JR	PY	404A Bragaw		127 N. Market St., Washington, NC
Taylor, Julian Raleigh	SO	ASZ	28 Bagwell Ave.	TE4-1509	28 Bagwell Ave., Raleigh, NC
Taylor, Michael Ervin	SO	NE	watauga Bx 3023		3009 Park Rd., Charlotte, NC
Taylor, Paul Earle	SO	AGI	14 Syme Bx 3610	TE2-9421	1201 State St., Cayce, SC
Taylor, Philip Edward	FR	IE	Becton Bx 3750	TE2-9334	3227 Killian Rd., Uniontown, Ohio
Taylor, Ray Stanley	FR	PPT	752 St. George Rd.	TE2-8072	752 St. George Rd., Raleigh, NC
Taylor, Richard Douglas	SR	CEC	5 Dixie Trail		Rt. 2, Lenoir, NC
Taylor, Theodore Edward	FR	EE	132 Tucker Bx 4643	TE2-9388	117 Mohican Dr., Forest Hgts., MD
Taylor, Thomas Aaron	GR	ANS	UK-33 Vetville	VA8-9853	Box 58, Landis, NC
Taylor, Thomas Eugene	FR	CE	Bx 4782	TE2-9323	Rt. 1, Deep Run, NC
Taylor, Timothy Nugent	MR	AMA	2400 Fairview Rd.	832-0950	Box 463, Rockingham, NC
Taylor, Warren Ernest	SO	FOM	115 Watauga Bx 3015	TE2-9447	10 w. Bugle Dr., Portsmouth, VA
Taylor, William Elton	JR	CE	F-204 McKimmon Vill.	828-3821	2717 Chilton Pl., Charlotte, NC
Taylor, William Noel	JR	EE	Q-207 McKimmon Vill.		Q-207 McKimmon Vill., Raleigh, NC
Taylor, William Thomas	JR	MEA	118 E. Park Dr.		306 Rutledge Dr., Wilmington, NC
Taylor, Woodrow Manning	SR	ASA	2718 Clark Ave.	TE2-6451	Rt. 2, Deep Run, NC
Teachey, James Clifton	SR	ABD	4006 Greenleaf St.		Rt. 1, Rose Hill, NC
Teachout, David Delano	FR	LA	UK-34 Vetville	834-4269	Los Angeles, CALIF
Teague, Charles Brady, Jr.	FR	TKT	Syme Bx 3589	832-9222	Box 162 Rt. 1, Forest City, NC
Teague, David Boyce	DR	AMA			39 Falls Ave., Granite Falls, NC
Teague, Donald Eugene	SR	CHE	212A Bragaw	VA8-7759	903 Unity St., Thomasville, NC
Teague, James Edward	JR	EE	424B Bragaw Bx 15409		Rt. 1 Box 53A, Hickory, NC
Teal, Kenneth Prentice	SO	TKT	15 N. Harrington St.		201 Raleighville Rd., Rockingham, NC
Team, James Lawrence	FR	IATO			4001 Henderson Rd., Greensboro, NC
Teate, James Lamar	DR	FOR	824 Brent Rd.		501 5th Ave. E., Cordele, GA
Tedder, Henry Miles, Jr.	FR	NE	202 Alexander Bx 4134	TE4-9746	Box 127, Waxhaw, NC
Tedder, James Joseph	SO	IL	16 Enterprise St.		Rt. 2, Lake Brandt Rd., Greensboro, NC
Tee, PinPin	GR	UN	Bx 9804		746 Juan Luna St., Manila, Phils.
Teeter, John Eric	JK	ATO	323U Bragaw Bx 15148		Rt. 3, Mooresville, NC
Tefft, John Edward, III	FR	ENG	126 Tucker	TE2-9367	121 Longview Dr., Alexandria, VA
Teeter, Perry Lee			203 Urban, Cary		Rt. 3, Mooresville, NC
Temple, Herman Lee	SR	CEC	207 Purches St.		1808 Westernfield Dr., Bayside, VA
Tepper, William DeSombre	SO	IATO	Bx 15134	TE4-9179	5 S. Branch Rd., Flatgown, NJ
Termon, Elliott Jay	JR	TKT	2713 Everett Ave.	TE3-1312	2713 Everett Ave., Raleigh, NC
Terrall, James Davis	SO	EE	213 Cox Ave.		2701 Arendall St., Morehead City, NC
Terrill, Thomas Robert	DR	CS	125 Byrum St. Cary		RD 2, E. Stroudsburg, PA
Terry, David Lee			2802 Hillsboro St.	TE2-0916	617 N. 4th St., Albemarle, NC
Terry, Marshall Ray	JR	MEA	Bx 4611		207 White St., Savannah, TENN
Terry, Thomas A., Jr.	SO	ME	122 Becton Bx 3722		

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Tesh, James Randall	FR	EE	P-322 McKimmon Vill.		Rt. 10, Lexington, NC
Tessener, Ray Egbert, Jr.	FR	ME	211 Welch		Ex 93, Grover, NC
Testerman, Jack D.	GR	EST	708 St. Mary's	TE2-0682	547 S. 75 E. Ave., Tulsa, OKLA
Tetterton, Darrell Grimes	SR	ZE	105D Bragaw Ex 15012		711 Traver St., South Boston, VA
Tetterton, Joseph Dean	FR	EE			711 Traver St., South Boston, VA
Tharp, Dennis Todd	CH	Bx 4638		TE2-9367	102 N. Lucas St., Port Bragg, NC
Thayer, Thomas Anthony	JR	MEA	326 Alexander	TE2-9349	965 Crane Rd. N.E., Atlanta, GA
Theriot, Eugene Joseph	GR	EE			101 W. Avondale, Greensboro, NC
Theys, John Cornelius	SO	PY	225 Becton Ex 3759	TE2-9334	Rt. 4, Raleigh, NC
Thigpen, John Marvin	SR	MED	D-15 MSH	828-7517	D-15, MSH, NCSG, Raleigh, NC
Thing, Michael Jon	FR	ARC	218 Owen Ex 7743	TE2-9252	116 W. Shore Trail, Sparta, NJ
Thoburn, Paul Haviland	JR	EE	125 Hawthorne Rd.	832-1183	1332 Hawthorne Rd., Wilmington, NC
Thomas, Charles Broughton	SR	MEA	J-21 MSH	TE4-0492	Weldon, NC
Thomas, Charles Hubert, Jr.	SO	IE	411A Bragaw Ex 15173		216 Broad St., Marion, NC
Thomas, Daniel Wilbur	FR	PPT	Ex 4409	TE2-9437	118 Prince Charles Ave., Red Springs
Thomas, Edward Russell	JR	CE	7 Enterprise St.	TE4-0435	305 Green St., Farmville, NC
Thomas, Edward Scott	JR	CE	323A Bragaw Ex 15145		411 Rauhut St., Burlington, NC
Thomas, Floyd Wilson	MR	ME	1025 Nichols Dr.		1025 Nichols Dr., Raleigh, NC
Thomas, Garrett Lee	FR	PY	218 Owen Ex 4473	TE2-9252	204 Alpine Trail, Sparta, NJ
Thomas, Gerald Kent	JR	MEA	Ex 15170	TE4-9757	3135 E. Ford Rd., Charlotte, NC
Thomas, James L.	SO	EE	Syme Ex 3544	832-9150	321 Rhyne Ave., Winston-Salem, NC
Thomas, Jere Manley, Jr.	SR	EE			912 S. 2nd St., Smithfield, NC
Thomas, Jerry Lee	FR	TKT	222 Syme	832-9150	103 W. Alabama Ave., Bessemer City, NC
Thomas, John A.	SR	EE	2337 Bernard St.	834-0488	Leaksville, NC
Thomas, John Charles	SR	AMA	245 Tucker Ex 4713	TE2-9387	Rt. 3, Thomasville, NC
Thomas, Joseph Eugene	SR	POM	111 Brooks Ave.	TE2-4608	Box 173, Erum, NC
Thomas, Phil Ray	SR	ATH			Rt. 3 Box 75, Bakersville, NC
Thomas, Richard Murry	FR	CE	207C Bragaw		3211 Luther St., Winston-Salem, NC
Thomas, Robert Andrew	FR	FOR	307 Welch Ex 3267	TE2-9119	333 Mt. Alto, Rose, GA
Thomas, Robert Eugene	JR	MM	2209 1/2 Hope St.	TE4-3244	Rt. 1 Box 207, Moncure, NC
Thomas, Robert Mike	FR	A	225 Bagwell Ex 3351	832-9131	Rt. 1, Sanford, NC
Thomas, Terry Lee	FR	AM	208 Owen Ex 4465	TE2-9410	1801 Highview St., Burlington, NC
Thomason, Thomas Watson, Jr.	JR	TKT	125 Cox Ave.		Rt. 1 Box 370, Salisbury, NC
Thomason, Samuel Joseph	SR	LA	203 Groveland Ave.	TE2-1619	128 Ellington St., Fayetteville, NC
Thompson, Charles Benjamin, Jr.	SR	EE	E-14 MSH	828-7355	1801 Rhem Ave., New Bern, NC
Thompson, Charles Monroe	SR	MTE	2504 Vanderbilt Ave.	V48-5333	Box 1086, Black Mtn., NC
Thompson, Clayton Harley	FR	MEA	6 Ferndeil Lane	TE2-2265	219 Tenth St., N. Wilkesboro, NC
Thompson, Franklin Norwood	FR	ME	205 Welch Ex 3252		311 N. Massey St., Selma, NC
Thompson, Harry Neil	SR	TC	Bx 5566	TE2-9350	Rt. 2 Box 20B, Brevard, NC
Thompson, Henry Lankford	SR	PY	3009 Leonard St.	833-4006	Rt. 3 Box 390, Lynnhaven, VA
Thompson, James Finckney, III	JR	TKT	217C Bragaw Ex 15082	TE2-9185	RFD 1, Fairmont, NC
Thompson, Jerry Wayne	SO	CE	215C Bragaw		Rt. 1, Graham, NC
Thompson, John Robert	SR	RFA	1334 Courtland Dr.	TE3-9885	1334 Courtland Dr., Raleigh, NC
Thompson, Jr., Lafayette	SO	ATL	Bx 3258	TE2-9119	Rt. 2, Lucama, NC
Thompson, Leonard Rockett	SO	ARC	309 Berry Ex 4329	TE2-9363	3909 Willsheire Blvd., Wilmington, NC
Thompson, Leonard Weston	JR	CEC	G-14 McKimmon Vill.	TE2-3830	108 Sumpter Rd., Goldsboro, NC
Thompson, Max Forest	SR	NE	103 Welch Ex 3239	TE2-9119	Aurora, NC
Thompson, Michael Morris	SO	TKT	2514 Clark Ave.	TE2-9148	601 Wooddale Dr., Greensboro, NC
Thompson, P. Paul	GR	A	207 Watauga		1204 Eton Dr., Greensboro, NC
Thompson, Roy Clark	SR	TKT			Box 124, Saluda, NC
Thompson, Samuel Harmon	JR	FOR	Bx 3783	TE2-9372	Rt. 2 Box 716, Spruce Pine, NC
Thompson, William Keith	SO	ASZ	3431 Bradley Pl.	TE4-8568	3431 Bradley Pl., Raleigh, NC
Thoms, Kenneth Richard	SR	NE	211 Berry Ex 4318	TE2-9363	270 Holt Dr., Pearl River, NY
Thomson, Marvin William	SO	ME	312 Becton Ex 3780	TE2-9372	1245 Huntington Rd., Winston-Salem, NC
Thorn, Robert Harold	SR	GS	308 Horne St.	TE2-7050	3606 Hobbs Rd., Greensboro, NC
Thorn, William Alexander, III	SR	MM	2512 Clark Ave.	TE2-4843	708 N. Highland Dr., Morristown, TENN
Thornburg, Tom Grier	JR	TC	202 Ashe Ave.		431 Spencer Dr., Concord, NC
Thornon, Theodore Burnis	UN	IA			1301 Rosewood St., Durham, NC
Thoroughgood, James Albert	JR	IE	611 Beaver Dam Rd.	TE3-1701	611 Beaver Dam Rd., Raleigh, NC
Thorsen, James Daniel	FR	FOR	221 Tucker Ex 4692	TE2-9387	791-90th St., Niagara Falls, NY
Threatt, Harold Crayton, Jr.	FR	CHE	255 Owen Ex 4506	TE2-9410	Rt. 11 Box 182-C, Charlotte, NC
Throneburg, Robert Allen	FR	CHE	359 Owen Ex 4570		319 N. Second St., Albemarle, NC
Thursby, William Raymond, Jr.	MR	AFY	109 Gold Ex 3209	TE2-9263	1605 Gleneagle Rd., Baltimore, MD
Thurstone, Robert Leon	GR	EE			400 Laurel Hill Rd., Chapel Hill, NC
Tice, Robert Glenn, Jr.	SR	IATO	H-22 McKimmon Vill.	TE2-2527	1300 Morven Rd., Wadesboro, NC
Tice, William Eddie	SO	WT	13 Becton Ex 3815	832-9261	710 Mineral Springs Rd., Durham, NC
Tickel, William Howard, Jr.	SR	FHT	206B Bragaw Ex 15268	TE4-9123	239 Madison St., Roanoke Rapids, NC
Till, Robert Budist	SR	MEA	1709 Hillsboro St.	TE3-6901	Rt. 6 Box 236, Asheville, NC
Tilley, Jack Harold	ME	CH	Bx 4466		Box 51, Marion, NC
Tillman, Donald Nelson	JR	WT	109E Bragaw	TE4-7624	Rt. 3, Sanford, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Tillman, Michael Thomas	SR	ME	UR-19 Vetville	TE2-7415	211 N. Main St., Roxboro, NC
Tilson, Carey Yates	JR	ARC	Bx 3128		Rt. 2, Chapel Hill, NC
Timberlake, Guy Jackson, Jr.	SO	MEA	321A Bragaw Bx 15141		Timberlake, NC
Timmerman, John Preston	ASV	ASV	4 Stadium Bx 4349		113 Taylor St., Black Mtn., NC
Tingle, Woodrow Richard	SO	PY	2114 Myrtle Ave.	832-2743	Box 275, Bayboro, NC
Tingley, Henry Kittreage	FR	AGT	Tucker Bx 4716	TE2-9387	501 Clifton, Westfield, NJ
Tinkler, James Eugene	FR	GEE			
Todd, Edward Snermer	MR	EM	103C Bragaw Bx 15007	TE2-9129	East Bend, NC
Todd, Harrell Gray	FR	ASV	Bx 4290		Rt. 2, Yadkinville, NC
Todd, Marvin Caulis, Jr.	JR	MEA	2209 1/2 Hope St.	TE4-3244	701 W. Church St., Ahoskie, NC
Todd, Maurice Cornelius	JR	ME	103C Bragaw Bx 15007	TE2-9129	East Bend, NC
Todd, Michael Ayers	FR	CE	Alexander Bx 4185	832-9349	Rt. 5, Braddock Heights, MD
Todd, Shelby Lee	FR	AS	2209 1/2 Hope St.	TE4-3244	701 W. Church St., Ahoskie, NC
Tollison, James Broner	SR	LE	5701 Hillsboro Rd.	VA8-5905	532 Shamrock Rd., Asheboro, NC
Tolson, Fred Lewis	JR	ARC	2618 Killgore Ave.	828-7646	Pinetops, NC
Tomkins, Charles Richard		IATO	201 Chamberlain	TE2-1143	Hume St., Gallatin, TENN
Tomlin, Mickey David	SR	CE	1234 Duffy Pl.	828-2105	1315 Faust Ave., High Point, NC
Tomlin, Thomas Allen	FR	PPT	312 Tucker	TE4-9739	Box 467, Georgetown, SC
Toney, Harold Mix	FR	AMA	113 Becton Bx 3713	TE2-9256	Rt. 1, Mooresboro, NC
Toomey, Walter Glenn	GR				403 Warren Ave., Gary, NC
Topinka, Gerald Joseph	JR	SED	Bagwell Bx 3380	TE4-9151	Box 686, Hermina, PA
Toro, Carlos Enrique	MR	EST	1836 W. Smallwood Dr.	833-5412	1863 F. Smallwood Dr., Raleigh, NC
Torrence, Daniel Alexander	JR	CE	426C Bragaw Bx 15414	TE4-2934	106 N. Holden Rd., Greensboro, NC
Torrico, Martin Torrico	GR	FOR	210 Cox Ave.		c/Ayala 108, Madrid, Spain
Tothill, Allen Kyle	SO	CHE	Bx 5566	TE2-9103	2623 Glenhaven Lane, Winston-Salem
Tower, John Daniel	FR	FOR			Rt. 4, Raleigh, NC
Townsend, Samuel Perry	SR	ASR	629 E. Franklin St.	TE4-4881	629 E. Franklin St., Raleigh, NC
Trader, Allen Tolson, Jr.	SO	ZO	328 Becton		Box 476, Havelock, NC
Tramel, James Lester	GR	CS	110 Ashe Ave.	834-1747	Rt. 1, Danville, VA
Travis, Nelson Lee	FR	CE	Bx 4696	TE2-9387	6301 Julian St., Springfield, VA
Travis, Roger Dale	FR	EE	202 Owen Bx 4459	TE2-9410	201 Lake Dr., Reidsville, NC
Taynham, Albert Reuben	FR	AMA	143 Owen Bx 4436	TE2-9437	215 Rolling Rd., Burlington, NC
Tremain, Roberta Marie	SR	TC	206 Forest Rd.		152 Guelph Ave., Hespeler, ONT.
Trexler, Walter Lee, Jr.	FR	ME	255 Owen Bx 4506	TE2-9410	Rt. 7, Box 735B, Charlotte, NC
Triplet, Herman Philip	FR	ASV	254 Owen Bx 4505	832-9252	1719 Lakeside Dr., Charlotte, NC
Triplet, William Edward	FR	ASV	4 Stadium Bx 4349		Rt. 2, Rutherfordton, NC
Tripp, Jasper Leroy, Jr.	SR	EE	1703 St. Mary's St.	TE2-4305	1703 St. Mary's St., Raleigh, NC
Tripp, Robert Edward	FR	CS	2010 Reaves Dr.	TE2-2136	2010 Reaves Dr., Raleigh, NC
Trogdon, George Curtis	SO	FMM	309 Tucker	TE2-9323	606 Tugale St., Toccoa, GA
Trott, Sabert Scott, II	JR	TXT	217B Bragaw	TE2-9185	310 West Ave., Kannapolis, NC
Troutman, Fredrick Marion, Jr.	SO	EE	502 Cutler St.	TE2-2180	Rt. 6, Shelby, NC
Troutman, Paul Edison	SO	EE	407D Bragaw Bx 15168	TE4-9757	Rt. 8 Box 353-F3, Charlotte, NC
Trumbo, Lewis Andrew	SR	EE	2434 Greenway Ter.	VA8-4525	2434 Greenway Ter., Raleigh, NC
Trustman, Stanley	SR	IE	306 Gold		Main St., Mountain Dale, NY
Tucker, Carl Britton	GR	AED			Rt. 8, Lexington, NC
Tucker, Frank Charles	SR	ARC	411 Garland Dr.		4618 Fairbluff Pl., Charlotte, NC
Tucker, George Eugene	MR	IE	2112 Dunnhill Dr.	VA8-3410	2112 Dunnhill Dr., Raleigh, NC
Tucker, Irvin Burchard	SO	IE	308 Horne St.	TE2-7050	3603 Brook Dr., Raleigh, NC
Tucker, Paul Arthur, Jr.	SR	TXT	Bx 4200	834-9279	Box 272, Locust, NC
Tucker, Richard Lyon	SR	IATO	Rt. 8		Rt. 8 Box 91-B, Greensboro, NC
Tucker, Robert Blain, Jr.	SO	EE	117 Syme Bx 3517	TE2-9288	Rt. 6, Winston-Salem, NC
Tucker, Robert Louis	FR	CHE	359 Owen Bx 4570	834-9836	2120 Vail Ave., Charlotte, NC
Tucker, Russ Hall	SO	MEA	326D Bragaw Bx 15362		126 Wilson St., Mt. Airy, NC
Tucker, William Lee	DR	ANS	5710 Waycross St.	828-2057	123 Alton Rd., Shelbyville, KY
Tulloss, John William, Jr.	JR	MD	1317 Beaverdam Rd.	TE3-6200	302 Villa St., Rocky Mount, NC
Tulluck, William Ernest, Jr.	SO	CEC	304 Burlington	TE2-9192	350 Pike N.E., Orangeburg, SC
Tunnell, Douglas Linwood	JR	ME	I-26 McKimmon Vill.	828-0212	New Holland, NC
Tunstall, Graham Kenneth	FR	AGI	219 Tucker Bx 4690	TE2-9387	Rt. 3, Mt. Airy, NC
Tunstall, John Nelson	MR	AMA	2814 Mayview Rd.	TE3-1627	2814 Mayview Rd., Raleigh, NC
Turbiville, Harry Pierce, Jr.	FR	PY	Bx 4639	TE2-9367	172 College Ave., Danville, VA
Turbyfill, Pressley Lythaniel	SO	FMM	406C Bragaw Bx 15373	TE4-9754	Rt. 1, Maiden, NC
Turco, John Eugene	JR	RPA	304 Horne St.	TE3-5171	5 Buena Vista Way, New Castle, PA
Turlington, Gary Melvin	FR	CEC	123 Becton Bx 3723		Box 381, Lillington, NC
Turlington, Henry Austin	FR	AGB	7 Stadium Bx 4352		Rt. 1, Salemburg, NC
Turlington, Larry Turner	FR	EL	301 Owen Bx 4518	TE4-9300	Rt. 3, Dunn, NC
Turlington, Tom E.			302 Owen		Rt. 3, Dunn, NC
Turnage, Floyd Davis, Jr.	MR	ME			1004 E. Willowbrook Dr., Burlington
Turner, Benjamin Scott	SR	ASV	567 N. Person St.	TE2-4551	Rt. 2, Pink Hill, NC
Turner, Charles Cline, Jr.	SO	AMA	101C Bragaw Bx 15003	TE2-9129	516 S. College Ave., Newton, NC
Turner, Denny Lee	UN	A		834-8324	Rt. 2, Poole Rd., Raleigh, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Turner, Dwight Luther	FR	EE	Bx 4764	TE2-9323	1520 Mt. Paran Rd., Atlanta, GA
Turner, James Keith	SO	MEA	212 Tucker Bx 4684	TE2-9327	501 Pomey Ave., Lincoln, NC
Turner, John David	SO	EE	501 Griffis, Cary	467-1272	501 Griffis St., Cary, NC
Turner, John Henry, Jr.	MR	EE			2407 Woddridge Rd., Burlington, NC
Turner, Joseph Edward	FR	EE	10 Enterprise St.		1128 Winslow St., Asheboro, NC
Turner, Larry Ward	SO	TXT	Bx 15289		Box 312, Spencer, NC
Turner, Leighton Houston, Jr.	FR	FOR	Tucker Bx 4765	TE4-9739	Box 74, Pink Hill, NC
Turner, Phillip Emmette, Jr.			114 Tucker Bx 4625		Box 263, Spring Hope, NC
Turner, Robert Cecil	SR	EE	Bx 5545	TE2-7708	503 Northridge Rd., Greensboro, NC
Turner, Rufus Carroll	JR	TXT	210D Bragaw		Box 861, Concord, NC
Turner, William Doyle	MR	AMA	15 Rosemary St.	TE2-8703	407 W. Main St., Pickens, SC
Turpin, John Presley	JR	CHE	2407 Clark Ave.	TE2-2048	Box 0, Newport, NC
Tuttle, Edward Hill	JR	EE	703 Wade Ave.	TE3-7355	408 Mt. View, Lenoir, NC
Tuttle, James F., Jr.	SR	MEA	201C Bragaw		206 Ashe St., Elizabeth City, NC
Tutzauer, Jack Roy	SO	EE	231 Turlington		1000 Guilford Ave., Greensboro, NC
Tuyet, Giang Su	FR	CHE	2305 Clark Ave.		Saigon, Vietnam
Waggs, Thomas Earl	SR	MEA	2222 Bernard St.	834-0681	2222 Bernard St., Raleigh, NC
Waggs, William Jerry	SO	CE	221D Bragaw Bx 15001		3400 Yanceyville Rd., Greensboro, NC
Wynnall, Gerald	JR	CE	115 Woodburn Rd.	TE2-2933	Box 731, Aberdeen, NC
Wynne, William Chuk	FR	MEA			Rt. 1 Box 282, Salisbury, NC
Ysinger, Gary Lewis	SO	CE	2713 Everett Ave.		326 Queens Rd., Sanford, NC
Ysinger, Walter Franklin	SR	IE			Rt. 4, Sanford, NC
Ysinger, David Thomas	SR	ARC	112 Cox Ave.		211 New Bern, Black Mtn., NC
Ysion, Harold Dean	SR	CEC	115 Hawthorne Rd.	VA8-7790	Wachaw, NC
Ysion, William Robinson	SR	CE	Tucker		South Main St., Wachaw, NC
Yugar, Arif Ugur			1201 Peace St.		Akseld, Turkey
Yustead, David Lee	FR	FOR	Tucker Bx 4637	TE2-9367	Eppington Forest, Blackstone, VA
Underhill, Ralph Wayne	SO	TXT	718 Devereax St.	TE2-5424	718 Devereax St., Raleigh, NC
Underwood, Alfred Laurayne	FR	EE	9 Berry		118 N. Main St., Salisbury, NC
Underwood, Daniel Marion			207 Alexander Bx 4138	TE4-9746	Rt. 4, Burlington, NC
Underwood, David Frank	SR	WT	214 Alumni Bldg.		806 East St., Waynesville, NC
Underwood, James Thomas	FR	FMM	P-315 MSH		Box 414, Norwood, NC
Underwood, William Alfred, III	MR	IED	913 Beverly Dr.	828-9778	Box 594, Asheboro, NC
Upchurch, Allen Pearson	UN	GS	1410 Glenwood Ave.	TE2-7555	1410 Glenwood Ave., Raleigh, NC
Upchurch, Edward Bryan	FR	CEC	621 Wille Forest St.	TE3-3954	621 Wille Forest St., Raleigh, NC
Upchurch, Robert Howard	JR	MELE	5 Dixie Trail	828-6915	Rt. 3, Raleigh, NC
Uptegrove, Raymond Russell	SR	PPT	2513 Clark Ave.	TE2-0268	1510 Front St., Georgetown, SC
Upton, John Willoughby	JR	PL	812 Manchester Dr.	828-5087	812 Manchester Dr., Raleigh, NC
Upton, Wayne				VA8-6494	
Urten, John Robert	FR	ME	106 Reynolds Rd.	VA8-2745	106 Reynolds Rd., Raleigh, NC
Uskup, Ergin	SR	IE	Bx 5701		Sait E F Sok, #11/4, Istanbul, Turkey
Ussery, Wilma McFayden			3103 Douglas St.	VA8-9557	404 S. Spring St., Concord, NC
Utermohle, Charles Edward, III	SO	CE	130 Hawthorne		8028 Liberty Rd., Balto, MD
Utley, John Wesley	SR	IA	14 Patches St.	TE2-4774	14 Patches St., Raleigh, NC
Uzzoe, Warren Dudley		GN	805 W. Lenoir St.	TE3-4712	707 N. Gen. Lee Ave., Dunn, NC
Vaccaro, Rodolfo	MR	AI			556 Av. Bolognesi, Tacna, Peru
Vaden, Bernie Oscar	JR	EE	308C Bragaw Bx 15324	TE4-9253	Rt. 2, Westfield, NC
Valcovic, Lawrence Richard	SR	CH	214 Owen Bx 4469	TE2-9410	Babylon Rd., Prospectville, PA
Van Ande, James Byron	FR	EE	F-309 McKimmon Vill.		P-309 McKimmon Vill., Raleigh, NC
Van Boskerck, James Abram	SO	CE	220D Bragaw	TE4-9123	Box 154, Pine Bluff, NC
Vance, John Francis, Jr.	SO	AS	423B Bragaw Bx 15199	TE2-0007	Rt. 2, Kernersville, NC
Vance, Louis Alan	SR	ASE	203 Groveland Ave.	TE4-3901	Flumtree, NC
Vance, Russell Grady	SO	EE	Bx 5860	TE2-9555	1706 Malone Rd., Burlington, NC
Vanderslice, Frederick Carlyle	FR	FOR	Bx 4724	TE2-9287	12470 Warwick Blvd., Newport News, VA
VanderVeen, Arthur Alvin	MR	EM			2721 Armfield Ave., Burlington, NC
Van Derveer, Richard Alan	FR	EE	214C Bragaw Bx 15283	TE4-9123	Vanderveer Ave., N. Branch, NJ
Vandervoort, Benjamin Franklin	FR	FOR	Bx 4724		511 N. Overlook Dr., Alexandria, VA
Van Dyke, Betty Lou	FR	CH	114 Brooks Ave.	838-6428	RFD 3 Box 186, Henderson, NC
Van Dyke, Douglas Jacob	SO	CHE	300 Chamberlain		155 N. Van Over Ave., Ridgewood, NJ
Vancek, Michael Thomas	SC	EE	A-15 McKimmon Vill.	833-6656	1810 Miami, Pasadena, TEXAS
Van Meter, Walter Wallace	FR	SEC	15 Maiden Lane		Oakwoods Rd., Wilkesboro, NC
Vann, Joel Walker	FR	ME	257 Owen	832-9252	141 Wayne Dr., Wilmington, NC
Vann, Thomas Phillips	SR	AMA	127 Hawthorne Rd.	TE4-5838	455 S. Ashe, Sou. Pines, NC
Van Vleet, Arthur Aaron	JR	EAT	302B Bragaw	TE4-4545	Rockledge Rd., Bristol, TENN
Van Pelt, John Ray	JR	MEA	104 Welch Bx 3240	TE2-9119	Rt. 3 Box 123, Kannapolis, NC
Vann, Eric Wayne	FR	ME	112 Bagwell Bx 3312		1930 Thurmond Pl., Charlotte, NC
Vargo, John James, Jr.	SR	ME	234 Becton Bx 3768	TE2-9334	1109 Leigh Ave., Charlotte, NC
Varnell, Ray Junior	JR	POK	Rt. 4		Lake Wheeler Mobil Est., Raleigh, NC
Varnier, Andrew Brockman, Jr.	SR	EE			2709 Lullington Dr., Winston-Salem, NC
Varon, Jaime	SR	AMA	16 Enterprise St.	TE2-5140	Eq. Cailoma, Gallao, Lima, Peru

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Vaughan, Claude Lawrence, III	JR	LA	6 Ferndell Lane	TE2-2265	700 Forest Hill Dr., Shelby, NC
Vaughan, John Louis	SR	IE	520 Wayne Dr.	TE4-7557	520 Wayne Dr., Raleigh, NC
Vaughn, Thomas Lee	FR	ASW	159 Owen Bx 4450		247 Ninth St. S.W., Hickory, NC
Vaughn, Alvin Barry	FR	ME	210 Owen Bx 4467		416 Dale Ave., Gastonia, NC
Vaughn, Joseph Bonaparte, III	JR	ME	1365 Baez St.	828-9473	1365 Baez St., Raleigh, NC
Vaughn, Robert Dale	FR	EST	51 Tucker Bx 4801		2024 W. Front St., Burlington, NC
Vaughn, Robert Herman	SO	EE	405A Bragaw Bx 15161	VA8-2257	604 Piedmont St., Reidsville, NC
Veasay, Aubrey Dee		AGI			Rt. 1, Bahama, NC
Vega, Marcos Revilloza	DR	CS	3304 Dunn Ave.	TE2-5397	33 Grove, Collogo, Laque, Phils
Velarde, Rodrigo	SR	LA	Alumni Bldg.	TE2-9322	Grijalva 112 Nte., Monterrey, Mexi
Venable, James Alexander	JR	NE	3108 Raymond St.		303 Pine Ave., Newport News, VA
Venable, Wallace Gerald	SR	ARC	209 Woodburn Rd.	833-1810	209 Woodburn Rd., Raleigh, NC
Venerus, Ernest Ronald	DR	NE	I-13 MSH		195 Grove St., Woodbridge, NJ
Verrick, Wallace Edwin	FR	CE	2405 Everett Ave.	828-6068	Rt. 1 Box 430, Winter Haven, FLA
Verbal, Claude Arthur	SO	MEA	212 Watauga Bx 3030		416 E. Pettigrew St., Durham, NC
Vermeulen, John Abram	FR	EE	121 Tucker Bx 4632	TE2-9367	80 Old Fort Rd., Bernardsville, NJ
Vermillion, Thomas Irwin	SR	FOR	1410 Hillsboro		1615 Fairidge Pl., Kinsport, TENN
Vernon, Clay Hester, III	SO	CBC	111 Bagwell Bx 3321	TE4-9219	Rt. 1, Milton, NC
Vestal, Thomas Johnson	SO	ASV	Bx 5658	TE3-6472	Rt. 3, Yadkinville, NC
Vestal, William Franklin	SR	ME	1111 Nichols Dr.	VA8-8859	Rt. 1 Box 89, Franklinville, NC
Vetter, Paul Lawrence	FR	EE	312 Bagwell Bx 3378	834-9151	2716 E. Twin Lakes Dr., Greensboro
Via, James Edward	MR	AGC	2010 Western Blvd.	834-7429	2010 Western Blvd., Raleigh, NC
Vicherman, Charles Nathaniel	GR	IE	G-16 MSH		1339 Lingle, Flint, MICH
Vickroy, Jonathan Atlee	SO	ME	213 Cox Ave.		Rt. 1 Bx 388, Morehead City, NC
Vincent, Charles Keith	MR	ANS	0-22 McKimmon Vill.	828-4867	Rt. 1, Jet, OKLA
Vincent, Norfleet Hall	FR	EE	Syme Bx 3596	832-9222	3023 University Dr., Durham, NC
Vinroot, Charles Arthur	JR	EE	109C Bragaw		2116 Hassell Pl., Charlotte, NC
Vinson, Allen Walter	SO	AED	P-209 MSH		Swansboro, NC
Vinson, James Randolph	JR	ME	16 Enterprise St.		Rt. 8, Box 208, Statesville, NC
Vinson, Philip Stanley	FR	PY	231 Bagwell	832-9181	112 S. Academy St., Ahsokle, NC
Vinson, William Ellis	SO	ASZ	103 Welch Bx 5289	TE2-9119	1357 Drexel Pl., Charlotte, NC
Vivekananthan, Pathe Sessaier	MR	IPS			Madurai, India
Viverette, Cecil Ecom, Jr.	JR	ATE	5 Dixie Trail		106 Glenview St., Lenoir, NC
Vmathur, Kailash Mal	GR	ANS	2320 Clark Ave.		
Vogt, James Wallace	SR	ME	302 Syme Bx 3566	TE2-9222	Netherwood Rd., Salt Point, NY
Vollmer, Norbert John	SO	ATC	2725 Anderson Dr.	TE3-7030	Rt. 4, Louisburg, NC
Voncanmon, Robert Wesley	JR	CHE	Bagwell Bx 3340	832-9131	Rt. 3 Box 159, High Point, NC
Voorhis, Remsen Sheldon	JR	ME	21 Enterprise St.		Chapel Hill, NC
Voss, Charles Henry, Jr.	DR	EE	3026 Lewis Farm Rd.	TE4-8524	2125 Kleinert Ave., Baton Rouge, LA
Voss, Joseph Hubert, Jr.	JR	CHE	Bx 3217	TE2-9263	Rt. 1 Box 715, Colfax, NC
Wachtel, Martin Luther, III	JR	AMA	815B Bragaw Bx 15130		Spring Hope, NC
Wachtel, Martin Luther, Jr.	FR	ARC	Watauga Bx 3076		Spring Hope, NC
Wade, James Arnold	FR	AGE	3113 Stanhope Ave.	TE2-2909	Oxford, NC
Wade, William Henry	UN	GS	1013 Franklin Rd.	TE2-1707	519 S. Hawthorne Rd., Winston-Salem,
Wade, William Jefferson	FR	FOR	264 Owen Bx 4515	832-9252	629 Young St., Henderson, NC
Wadhwa, Trilochan Singh	MK	EE	405 Furches St.		R-723, New Rajinder, New Delhi, Ind
Wadsworth, John Chauncey	SO	EE	Bx 3317	TE4-9219	Box 85, Magnolia, NC
Waggoner, Terry Cecil	FR	TXT	153 Tucker Bx 4660		Bear Poplar, NC
Wagner, Walter Rudolph	FR	MTE	227 Forest Rd.		227 Forest Rd., Raleigh, NC
Wagner, Wesley Lane	SO	TXT	209A Bragaw Bx 15065		Cherry Grove, SC
Wagoner, James Wilson	SR	NE	325 Syme Bx 3589	TE2-9222	716 Piedmont St., Reidsville, NC
Wagoner, Michael Neil	SO	CE	P-111 MSH		2800 Robin Hood Dr., Greensboro, NC
Wagoner, Thomas Leftrage	SR	ME	4700 Hillsboro St.	TE2-9763	Sparta, NC
Wahab, Thomas Allen	SO	CE	Bagwell Bx 3320	TE4-9219	Box 505, Warsaw, NC
Waite, Robert Clark	FR	EE	216 Watauga Bx 3034	TE2-9132	81 Spaulding St., Buffalo, NY
Wakefield, Robert Henry	SR	PY	Box 71, Cary	TE4-5596	506 Elm St., Salisbury, NC
Waldroep, Charles Ronald	FR	CE	Owen Bx 4568		Rt. 1, Franklin, NC
Walker, Anthony Leroy	SO	ASO	Ex 15155		Rt. 2 Box 455, Candler, NC
Walker, Barbara Dale	JR	ASR	206 Forest Rd.	TE2-7440	Atkinson, NC
Walker, Carroll Lawford	JR	IE	2512 Clark Ave.	TE2-4843	108 Afton Ave., Norfolk, VA
Walker, Charles	SR	CH	1427 Park Dr.		RFD 2, Mt. Olive, NC
Walker, David Sylvester	SO	ATE	215B Bragaw Bx 15077		Rt. 1, Hillsboro, NC
Walker, Ernest Daniel	SO	ME	419A Bragaw Bx 15190	834-1667	921 15th St. N.E., Hickory, NC
Walker, Garland Larry	FR	TXT	Becton Bx 3709	TE2-9256	Rt. 4, Whiteville, NC
Walker, Gary Hamilton	SO	TXT	218B Bragaw Bx 15293	TE4-9123	180 S. Prospect St., Lenoir, NC
Walker, Grady Steven	JR	ASE	P-317 MSH	834-4014	Rt. 3, Clyde, NC
Walker, James Howard	JR	TXT	226A Bragaw Bx 15306		Boonville, NC
Walker, James Linwood	FR	ME	230 Syme Bx 3562	TE2-9150	404 Foster St., Burlington, NC
Walker, Joel Edwin	JR	ME	306 Welch Bx 3266	TE2-9119	Rt. 3 Box 393, Shelby, NC
Walker, Kyle Robert	SR	TXT	107 Gold Bx 3207	TE2-9263	Box 197 Rt. 4, Stuart, VA

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
alker, Lemoy, Jr.	JR	MEA	209 watauga Bx 3027	TE2-9132	2908 Red Oak Ave., Durham, NC
alker, Lindsey Franklin, Jr.	JR	EE	310 welch	TE2-7119	620 Regiment Ave., Wilmington, NC
alker, Nathaniel	GR	FOR	303 Park Ave.	834-4406	1906 Admiral, Stillwater, OKLA
alker, Oscar Thomas	JR	TAT	202 Becton Bx 3736	TE2-9334	Box 1, Whiteville, NC
alker, Raymon Lowe, Jr.	JR	AMA	1512 Simpkins St.		930 Old Winston Rd., High Point, NC
alker, Thomas Leon	JO	EE	133 Becton, Bx 3733	832-9256	114 Windsor Rd., Asheville, NC
alker, William Clyde	JR	ME	2015 Bragaw Bx 15050		1453 Colemill Rd., Durham, NC
all, Daniel Glenn	FR	EE			427 Kildee St., Clayton, NC
all, Edward Calvin	SR	ATC	A-24 McKimmon Vill.	833-8596	Box 273, Rural Hall, NC
all, Edwin George	FR	ME	201 Tucker	TE4-9828	218 Westover Dr., Lexington, NC
all, George David	SR	CE			Box 74, Tryon, NC
all, Kermit Arthur, Jr.	JR	ME	1706 Dare St.	833-3595	Box 175, Walkertown, NC
all, Luther Wesley, Jr.	JR	CE	318 watauga Bx 3054		Julian, NC
all, Michael Wiley	JO	MEA	226 Becton Bx 3760	TE2-9334	Box 73, Henrietta, NC
all, N. Jarole	SR	NEL	2512 Vanderbilt		1606 E. Geer St., Durham, NC
allace, George Roberts	JR	CEC	220 Turlington Ex 4248	TE2-9297	Box 111, Morehead City, NC
allace, John Davis	JR	AGI	Tucker Bx 4697	TE2-9387	Box 222, Franklinville, NC
allace, Larry Wayne	SR	ME	2622 Noble Rd.	832-4921	1330 Hamilton St., Roanoke Rapids, NC
allace, Ralph Thomas	SO	CE	Bragaw Bx 15033	TE2-9219	Rt. 1, Cameron, NC
aller, James Avery, Jr.	FR	CHE	Bx 4572	TE4-9300	618 E. Cemetery St., Salisbury, NC
aller, Jerry Marvin	DR	CHE	1010 Washington St.	467-1396	1010 Washington St., Cary, NC
alser, Douglas MacArthur	SO	TC	2160 Bragaw Bx 15289	TE4-9123	Box 1100, Salisbury, NC
alsh, Leonard	SO	ME	2314 Hillsboro		Rt. 4, Roxboro, NC
alsh, Phillip Joe	JR	FY	103 Owen Bx 4402		Rt. 1, Elk Park, NC
alsh, William K.	DR	CHE	2622 Bedford Ave.		2622 Bedford Ave., Raleigh, NC
alter, Frederick John	JR	CEC	121 Tucker Bx 4632	TE2-9367	Claremont Rd., Bernardsville, NJ
alters, George Wiltse	FR	ME	Bx 4761		Rt. 1 Box 157, Matthews, NC
alters, James Franklin	SO	NE	121 Owen Bx 4416		Aberdeen Rd., Laurinburg, NC
alters, William Place	JR	MEA	320 Bagwell Bx 3386	TE4-9151	1720 Glenwood Ave., Greensboro, NC
altner, Nellie Laird	UN	GS	1612 Lorraine Rd.	TE3-0766	1612 Lorraine Rd., Raleigh, NC
alton, James Richard	FR	ASV	217 Becton	TE2-9334	86 Edgemont Rd., Upper Montclair, NJ
alton, Jay Runny	GR	CE	711 Cornwall Rd. Cary	HO7-4639	711 Cornwall Rd., Cary, NC
alton, Willie Bruce	JR	EE	324 Becton	TE2-9372	501 Beaumont Terr., Shelby, NC
ang, Fu Tseng	GR	EST	2402 Hillsboro St.	TE3-9108	2402 Hillsboro St., Raleigh, NC
ang, Phillip Hweig	GR		15 Maiden Lane		10 Kang Juang Rd., Taiwan, CHINA
ard, Alva Hill	FR	ARC	2703 Bedford Ave.		807 Market St., Wilmington, NC
ard, Carter Studdeat	SO	ARC	110 watauga		202 E. College St., Whiteville, NC
ard, Charles Braxton	JR	EE	P-303 McKimmon Vill.		112 Marlboro St., Hamlet, NC
ard, Daniel Edward	MR	TC	310 W. Whitaker Mill	TE2-8573	310 W. Whitaker Mill Rd., Raleigh, NC
ard, David Francis	SO	ARC	2703 Bedford Ave.		807 Market St., Wilmington, NC
ard, Gus Granam, III	SR	ME	1333 Canterbury Rd.		8212 Chapel Hill Rd., Durham, NC
ard, James Swan			256 Tucker Bx 4723		Box 511, Snow Hill, NC
ard, Leon Jackson	SR	CE	2331 Bernard St.	828-3520	1509 E. Ash St., Goldsboro, NC
ard, Louis Vernon	SO	GS	B-23 MSH		Rt. 3 Box 4, Whiteville, NC
ard, Perry Lee	SO	NE	309A Bragaw Bx 15116	TE4-9179	14 Third St., Canton, NC
ard, Richard Johnson	SO	NE	102 Watauga Bx 3002	TE2-9447	Rt. 1, Rose Hill, NC
ard, Richard Samuel	JR	PTT	121B Bragaw		1130 Carolina Ave., Bristol, TENN
ard, Sophronia Williams	SO	EST	0-26 McKimmon Vill.	828-4079	1301 Brooks Ave., Raleigh, NC
ard, Thomas Carl	SR	CHE	0-26 McKimmon Vill.	828-4079	2736 St. Mary's St., Raleigh, NC
ard, Thomas Marsh	LR	CS	2736 St. Mary's St.	TE3-9833	2736 St. Mary's St., Raleigh, NC
ardell, Robert Farman	FR	ME	230 Owen Bx 4485	TE2-9410	1312 Biltmore Dr., Charlotte, NC
are, Benjamin Griffin	JR	AEL	302 Alexander Bx 4165	TE2-9349	Rt. 3, Newland, NC
are, James Hunter	SO	NE	2601 Clark Ave.		501 S. Main St., Mt. Holly, NC
are, Melvin Luther	FR	EE	Bx 3270		815 W. Mountain St., Kings Mtn., NC
arick, William Charles	SR	ATC	3214 Birmamwood Rd.	TE4-4220	3214 Birmamwood Rd., Raleigh, NC
arbrod, Grover Karl	JR	AMA	102 Horne St.	833-4872	102 Horne St., Raleigh, NC
arbrod, Grover Karl	SO	EE	4122 Bragaw Bx 15384	TE4-9754	Rt. 10 Box 24, Lexington, NC
rner, Gary Britain	SO	EE	Bx 4238		216 Long St., Thomasville, NC
rner, Grant Herbert	SO	TC	104C Bragaw Bx 15217	832-9180	2213 Carlton Lane, Wilmington, DEL
rner, James Richard	FR	ARC	320 Becton	TE2-9372	517 New St., New Bern, NC
rner, Joyce Rebecca	FR	ME	1814 Park Dr.	TE3-0875	555 Bowman Rd., Charlotte, NC
rner, Michael Kendall	JR	ARC	142 St. Boylan Ave.		1449 Mantua Ave., Coral Gables, FLA
rner, Peter Anthony	JR	EE	324 Owen		5509 Cornish Rd., Bethesda, MD
rner, Raymond Douglas	JR	BUM	1718 Hillsboro St.	VAB-4464	111 Wyman St., Medford, MASS
rner, Robert Vance	JR	TAT	103 Tucker	TE2-9367	Rt. 5 Box 43, High Point, NC
rner, Paul Franklin	JR	FY	114 Bagwell Bx 3314	TE4-9219	311 S. Columbia St., Gastonia, NC
rner, John Wilson, III	JR	MEA	139 Owen Bx 4433	832-9115	Richmond Ave., Hamlet, NC
rner, Charles Glenn	SO	ASV	314 Bragaw		Rt. 1, Robersonville, NC
rner, George Emerson	SO	AGI	401 Guilford Cir.	TE2-1985	Rt. 1, Newton Grove, NC
rner, Glenn Thomas	SO		1720 Hillsboro St.	VAB-9200	301 Hillcrest Dr., Clearwater, FLA

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Warren, James Marshall	SR	ASW	1086 Bragaw Bx 15224	TE2-9180	RFD 1, Box 147, Battleboro, NC
Warren, James Thomas	SR	AWW	1-310 Main		Ferry Rd., Rt. 3, Asheville, NC
Warren, Joe Britt, Jr.	SR	ATS	1086 Bragaw Bx 15401		Box 68, Newton Grove, NC
Warren, John Frederick	SR	ARC	106 Ashe Ave.		215 Nassau St., Princeton, NJ
Warren, John Gary	SR	AGI	4-118 McKimmon Vill.		Rt. 1, Box 114, Chocowinity, NC
Warren, Larry Dean	SR	NE	Ex 4170	TE4-9746	Rt. 1 Box 12, Newton Grove, NC
Warren, Larry Estel	FR	OH	320 Syme Bx 3584	832-9322	311 Elizabeth, Clinton, NC
Warren, Norman Lee	SR	MEA			115 Adams St., Durham, NC
Warren, Ralph Mayo	SR	NE	108 Bagwell		308 Burlage Dr., Chapel Hill, NC
Warren, Robert Sullivan	UN	SO	4224 Rowan St.	VA8-3852	4224 Rowan St., Raleigh, NC
Warren, William Stanley	SR	ARC	2426 Hillsboro St.	TE4-9859	Rt. 1 Box 114, Chocowinity, NC
Warrick, William Daniel	SR	CBC	3-4 Welch Bx 1264		Rt. 1, Selma, NC
Warwick, Nurham Osbie	SR	ARC	5071 Six Forks Rd.	834-4052	Rt. 5, Clinton, NC
Washburn, James Ray	SR	WY			Rt. 1, Spruce Pine, NC
Washburn, Seth Lopez	SR	AWB			Rt. 4, Louisburg, NC
Washburn, Wallace Frank	FR	EE	320 Owen Bx 4535	TE4-9300	1117 Grayland St., Greensboro, NC
Washington, Steven Leslie	FR	OH	121 Tucker Bx 4632	TE2-9367	450 Long Hill Rd., Gillette, NJ
Waterman, Gerald LeRoy	FR	NE			405 Warren Ave., Cary, NC
Waters, Douglas Elton	FR	ENG	367 Bagwell Bx 3373	834-9151	1112 Conger Dr., Aiken, SC
Waters, Martha Babb				HO7-9622	102 Marjorie Dr., Cary, NC
Waters, Wilburt Jackson	SR	WT	5-39 Fayetteville Rd.	TE3-5954	Rt. 1 Box 227, Pinetown, NC
Watford, Gary Carl	SR	EE	312 Becton	TE2-9372	Rt. 3 Box 258, Thomasville, NC
Watkins, Deal Plince, Jr.	SR	GBE	325 Becton		605 Pineview Dr., Raleigh, NC
Watkins, Gerald Jon	SR	IKTO	H-26 McKimmon Vill.		607 Candlewood Dr., Greensboro, NC
Watkins, Jimmy Abell	SR	A	4700 Hillsboro St.		Yanceyville, NC
Watkins, Louis W., Jr.	FR	PD	324 Syme		2260 Mimosa Pl., Wilmington, NC
Watkins, William Deering	SR	NE	8 Ferndell Lane	TE2-1755	212 Little St., Wadesboro, NC
Watlington, Alvin Clay, Jr.	SR	ANA	1-3 Syme Bx 3500	TE2-9421	Rt. 6, Reidsville, NC
Watson, Carolyn Olivia	SR	ASZ	306 Chamberlain		208 Maple St., High Point, NC
Watson, Clayton Loris	SR	GS	1086 Bragaw Bx 15293	TE4-9123	112 Hazel Lee Dr., Lenoir, NC
Watson, Fred Rogers	SR	CE	202B Bragaw Bx 15260		Rt. 4 Box 458, Lenoir, NC
Watson, Jack Owen	SR	ANA	2512 Clark Ave.	TE2-4843	1005 Asheboro St., Greensboro, NC
Watson, John Eugene	SR	AGI	Owen		Rt. 1, Tryon, NC
Watson, Larry Irving	SR	EE	1050 Bragaw Bx 15011		103 Country Club Dr., Plymouth, NC
Watson, Louis Samuel	FR	ANA			113 Broughton St., Garner, NC
Watson, Willard Wayne	SR	ABA	1105 W. Lenoir St.	TE3-8831	Box 54, Lucama, NC
Watson, Ronald Gene	FR	EE	231 Becton Bx 3765	TE2-9334	Andrews, NC
Watson, Willard Raymond	FR	EE	719 Chamberlain	828-5154	Rt. 2, Scotland Neck, NC
Watson, William Ivey, Jr.	FR	NEA	305 Taylor St.	TE4-2488	305 Taylor St., Raleigh, NC
Watson, William Robert	SR	IE	1408 Hillsboro St.	TE4-5017	713 S. Main St., Red Springs, NC
Watts, Max Donald	SR	EE	101 Fourth Bx 3111	TE2-9157	Rt. 1 Box 215, Morganton, NC
Watts, Phillip Maurice	FR	JE	Bx 4753		Box 38, Germantown, NC
Watts, Robert Wayne	SR	JE	115 Becton Bx 3715		Box 14, Ruffin, NC
Watts, Thomas Powell, Jr.	SR	ME	Bx 4310		1036 Miller St., Winston-Salem, NC
Way, Warren Wade	SR	EE	18 Turner St.	834-3517	342 Kingwood Ave., Charlotte, NC
Way, Merritt Winslow, Jr.	SR	EE	102A Bragaw Bx 15211	832-9180	913 Greenwood Dr., Greensboro, NC
Weant, George Edward, III	SR	EE	229 Owen	TE2-9410	314 W. Thomas St., Salisbury, NC
Weant, Marvin Eugene	SR	EE	Rt. 1, Cary	467-1324	Rt. 1, Cary, NC
Wearn, George Patterson	SR	GS	400 Chamberlain St.	833-9194	400 Chamberlain St., Raleigh, NC
Weatherly, Robert Neilson	SR	NEA	12 Stadium Bx 4357		Box 185, Hamlet, NC
Weathers, Muriel Moore			1218 Lorimer Rd.	TE4-5923	1218 Lorimer Rd., Raleigh, NC
Weaver, Baron Lee	FR	ME	310 Tucker Bx 4743	TE2-9387	Rt. 4, Johnson City, TENN
Weaver, Charles Nelson	FR	EE	Bx 4725		2037 16th St. N.E., Hickory, NC
Weaver, Glenn Ocell	SR	EE	226 Owen Bx 4481		E. Academy St., Fuquay, NC
Weaver, Jack Noel	FR	ME	45 Tucker		531 Norman Fair St., Lincolnton, NC
Weaver, James Bryson	SR	ME	3070 Bragaw		315 Belview St., Valdesa, NC
Weaver, James Madison			305 Turlington		Rt. 2, Harrisonburg, VA
Weaver, John Thomas, Jr.	SR	ME		TE2-2126	Pinetops, NC
Weaver, Kenneth Sheridan	SR	TC	Turlington Bx 4227	TE4-9279	Rt. 2, Wehabe, NC
Weaver, Leslie Lamonte	SR	IE	205 E. Franklin St.	833-0741	RFD 3 Box 250, Mt. Olive, NC
Weaver, Royall Worth, Jr.			307 Berry		Rt. 1, Box 213, Goldsboro, NC
Webb, Ernest Eugene	SR	MEA	4110 Bragaw Bx 15176		5420 Sharon View Rd., Charlotte, NC
Webb, Jesse Alton, Jr.	FR	ARC	209 Syme		100 Elmwood Dr., Greensboro, NC
Webb, Joseph Thomas	FR	PPT	313 Turlington Bx 4275	TE2-9192	Rt. 1 Box 187, Macclesfield, NC
Webb, William Frank	SR	ME	2142 Mayview Rd.		Rt. 2, Candler, NC
Weber, Susan M.	SR	MED	2504 Vanderbilt	TE2-2369	Six Forks Rd., Raleigh, NC
Webster, Hugh Bason	SR	ASV	309 Owen		Star Rt. 1, Yanceyville, NC
Webster, Maurice Wilson			502 Walnut, Cary	457-9845	502 Walnut St., Cary, NC
Wechsler, Donald Byron	SR	IE	304 E. Park Dr.	TE4-2951	2315 Pinetree Dr., Miami Beach, FLA
Weed, David Newkirk	FR	ON	2715 Barmettler St.	828-2282	865 Tice Pl., Westfield, NJ

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Weeks, Howard Raymond, Jr.	SR	ME	133 Alexander	TE2-9257	1108 Knox St., Durham, NC
Weeks, Martin Wade, Jr.	JR	MEA	310C Bragaw Bx 15328		113 E. Williamson St., Mt. Olive, NC
Weeks, Gilas Burling		AG	2721 Van Dyke Ave.	834-6295	Durham, NH
Weeks, Willis Bryant	SR	TXT	Box 5566	832-9353	Rt. 3, Mt. Olive, NC
Weeks, Marvin Marshall	JR	AMA	410 Chesterfield Rd.	TE3-9230	410 Chesterfield Rd., Raleigh, NC
Wilder, Donald Henry	SR	FOM	304 Duncan St.	TE2-7498	304 Duncan St., Raleigh, NC
Wilberg, Alan Stuart	SR	CHE	121D Bragaw		104 Faulkner Dr., Greensboro, NC
Wilder, Lawrence Samuel, Jr.	SO	IE	2714 Rosedale		Richburg Rd., Great Falls, SC
Wiesiger, David Alan	SO		225A Bragaw		145 Harold Ave., Fanwood, NJ
Wies, Arnold Irwin	DR	EST	3305 Briarcliff Rd.	828-8726	3305 Briarcliff Rd., Raleigh, NC
Wich, John Tunstall	DR	AMA	1220 Filmore St.		435 Williamsboro St., Oxford, NC
Wiggins, George S.	SR	ATO			Rt. 3, Wilson, NC
Wills, James Lee	FR	CE	318 Tucker	TE4-9739	518 S. Vyne St., Rocky Mt., NC
Winst, Eddy Ray		EE	1221 Duplin Rd.	832-6530	84 7th Ave., Newark, NJ
Winst, George Harper	SR	ASZ	422A Bragaw Bx 15404	TE4-9754	Rt. 6 Box 252, Kinston, NC
Winst, Graham Alston	JR	ME	340 Alexander	TE2-9349	913 Rudolph, Goldsboro, NC
Winst, Jerry Lee	GR	AEC	127 W. Park Dr.	828-7973	765 S. Union St., Concord, NC
Winst, Stanford Chester, Jr.	FR	GS	2937 Claremont Rd.	TE4-1512	2937 Claremont Rd., Raleigh, NC
Winst, T. D., Jr.	FR		236 Tucker Bx 4706	TE2-9387	Rt. 2, Roseboro, NC
Winst, Thomas Bradford	SR	ME	D-23 McKimmon Vill.	828-8342	525 Spruce St., Charlotte, NC
Winst, William Henry, Jr.	FR	AGI	Box 4499	832-9252	Moyock, NC
Winst, Willis Ashley	SR	ASR	202 Groveland Ave.	828-4797	Rt. 1, Aberdeen, NC
Winstbrook, John Luther	FR	DN	158 Owen	TE2-9437	Box 785, Burgaw, NC
Winstbrook, Thomas H.	JR	CE	320D Bragaw Bx 15350	TE4-9253	Rt. 3, Mt. Olive, NC
Winston, Ralph Boyce	FR	NE	706 Harris St.	828-6672	706 Harris St., Raleigh, NC
Winstore, Paul Harrington	SO	ME	1829 Glenwood Ave.	TE2-9664	1829 Glenwood Ave., Raleigh, NC
Winstore, Thomas Hugh, Jr.	FR	GS	3506 Six Forks Rd.	TE3-5392	3506 Six Forks Rd., Raleigh, NC
Winstrell, William Louis, III	SO	AMA	2601 Clark Ave.	TE2-7708	1131 S. Edgemont Ave., Gastonia, NC
Winstley, Ronald Larry	SO	MEA			100 Cedar Lane, Garner, NC
Winstinger, Philip Daniel	GR	ANS	123 Brooks Ave.	TE2-8764	Clintonville, W.VA.
Winstley, Dorothy Elizabeth	DR	AEC	407 Stacy St.	TE2-3418	407 Stacy St., Raleigh, NC
Winston, Bruce Martin	SR	NE	322C Bragaw Bx 15353		120 Jefferson St., Burlington, NC
Winstler, Donald Wayne	SO	EE	105 Turlington Bx 4204	TE4-9279	300 Catherine St., Benson, NC
Winstler, Molton Henry		NE	218 Watauga Bx 3036		6618 Wilkins Dr., Falls Church, VA
Winstler, Ray Bain	SR	PPT	2512 Clark Ave.	TE2-4943	54 Substation Rd., Canton, NC
Winstless, Gilbert Barnes, Jr.	SO	ARC	204 Alumni Bldg.	TE2-9322	1021 W. Trinity Ave., Durham, NC
Winstler, Orman Ernie	JR	CE			309 N. Wayne Ave., Dunn, NC
Winstler, Robert Staunton	JR	GE	Turlington Bx 4213	834-9279	1044 W. Rock Springs Dr., Greenville, NC
Winstler, Rex Allen	JR	TXT	P-312 McKimmon Vill.	TE2-2253	Box 284, Stoneville, NC
Winstler, Hoyt Webster	JR	ME	Owen Bx 4583	TE2-9142	Engelhard, NC
Winsthunt, James Daniel	FR	PD	M-12 MSH	832-8708	Box 409, Waynesville, NC
Winstant, Barry Wade	SO	CL	125 Alexander	TE2-9257	Claremont, NC
Winstant, James Miller	SR	AMA	307D Bragaw Bx 15115		Rt. 3 Box 758, Lenoir, NC
Winstaker, Frank Ogburn	UN	GS			Oak Ridge, NC
Winstaker, Ray Turner	SO	CE			1202 Park Ave., Garner, NC
Winstaker, Scott Stevenson	MR	CE	2 Logan Ct.		217 White Horse Pike, Collingswood, NJ
Winstaker, Thomas Burton	MR	AGE	2414 Mayview Rd.	VA8-2380	2414 Mayview Rd., Raleigh, NC
Winstler, Bobby Taylor	FR	ME	162 Owen Bx 4453	832-9115	Rt. 3, Pittsboro, NC
Winstler, Charlie Raymond	FR	IA	Bagwell Bx 3399		Rt. 4 Box 198c, Ahoskie, NC
Winstler, David Eagle, Jr.	MR	ANS	10104 Vance St.	TE4-0075	Rt. 2, Statesville, NC
Winstler, Douglas Edward	SR	CE	1501 Benehan St.	TE4-0271	814 W. Church St., Ahoskie, NC
Winstler, Duward Lester		AGI		832-4252	Box 182, Dover, NC
Winstler, George Ormand	SO	ME	117 Beeton	TE2-9256	Lillington, NC
Winstler, Jack Terry	SO	ME	14 Turner St.	TE2-4359	522 W. Colonial Ave., Elizabeth City
Winstler, James Ray	MR	HST	E-22 McKimmon Vill.	834-4380	6416 Shetland Dr., Knoxville, TENN
Winstler, John Kenneth	JR	ME	201 Berry Bx 4308	TE2-9363	2003 Brightwood Sch. Rd., Greensboro, NC
Winstler, Kenneth Glenn	SO	EE			South Mills, NC
Winstler, Ray Ronald	SO	NE	Bx 3604		120 White St., Randleman, NC
Winstler, Malcolm Blair	FR	UN	Bx 3563	832-9150	393 High Bank Rd., S. Yarmouth, MASS
Winstler, Martin Kellogg	SO	CEC	218 Watauga	TE2-9142	Rt. 3, Mt. Gilead, NC
Winstler, Murray Reed	SO	NE	Box 5566	TE2-9353	4301 Woodlark Ln., Charlotte, NC
Winstler, Nicholas Francis	FR	NE	318 Tucker		2222 Winter St., Charlotte, NC
Winstler, Opie Woodrow	SO	ME	418 Bragaw		State Rd., Elkin, NC
Winstler, Rayford Leon	FR	GS	Bx 4474	832-9252	RFD 2 Box 142, Lenoir, NC
Winstler, Ronald Everett	FR	IE	Box 638, Cary	467-2248	Rt. 1, Franklin, NC
Winstler, Stokes, Jr.	JR	IE	209 Alexander Bx 4139	TE4-9766	69 W. Depot St., Concord, NC
Winstler, Thomas Howard	SO	FOM	2729 Everett Ave.	TE2-1229	Rt. 1, Franklin, TENN
Winstler, Thomas Kelley, Jr.	FR	AGC	F-3 Shelton Apts.	TE2-0462	F-3 Shelton Apts, Raleigh, NC
Winstler, Thomas Warren	FR	AGS	Owen Bx 4413	TE2-9437	Rt. 1 Box 170, Siler City, NC
Winstler, Wester Wiley	JR	TAT	Bx 3545	TE2-7308	Rt. 7 Box 274, Greensboro, NC

JME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Wite, William Hale	JR	TXT	K-23 MSH	TE3-2794	1809 Independence Rd., Greensboro, NC
Wite, William Henry	FR	TXT	1631 St. Mary's St.	832-3603	1631 St. Mary's St., Raleigh, NC
Wite, William Vogler	FR	EE	304 Joid Bx 328	TE2-9263	750 Roslyn Rd., Winston-Salem, NC
Witehouse, Richard Allen	SR	EE	2407 Van Dyke Ave.	VA8-9694	Old Ellington Rd., Broad Brook, Conn
Witener, Hugh Dave	FR	TC	223 Alexander Bx 4152	TE4-9746	Box 1158, Gastonia, NC
Witessell, William Kenneth, Jr.	SR	CEC	1405 Beaver Dam Rd.	TE3-6298	1101 Council St., High Point, NC
Witfield, Dale Woolwine	SR	AMA	24 $\frac{1}{2}$ Shepherd St.	VA8-9546	24 $\frac{1}{2}$ Shepherd St., Raleigh, NC
Witfield, James Perry, Jr.	SR	CE	B-13 McKimmon Vill.		1201 Watts St., Durham, NC
Witfield, Richard Alan	FR	ARC	1607 Van Dyke Ave.	VA8-6503	1607 Van Dyke Ave., Raleigh, NC
Witfield, William Anthony	SO	ATD	1702 Hillsboro St.	832-8406	Rt. 1, Robersonville, NC
Witley, Betsy Mason	JR	IE	725 Woodland Rd.	828-9919	725 Woodland Rd., Raleigh, NC
Witley, James Lucius	FR	AGI	115 Alexander Bx 4112	TE2-9257	Rt. 2, Enfield, NC
Witley, Lester Stanley	MR		Q-121 McKimmon Vill.		Rt. 1, Stantonsburg, NC
Witley, Alvin		ME	118B Bragaw	TE2-9180	Rt. 2, Middlesex, NC
Witley, Richard Goodwin	FR	ME	257 Owen Bx 4508	832-9252	721 Montgomery Ave., Albemarle, NC
Witlew, David Wayne	SR	EE	121 Owen Bx 4416	TE2-9437	1507 Darden St., High Point, NC
Witman, Gary Dean	FR	RPA	222 Owen		102 S. Jones St., Lock Haven, PA
Witney, Charles Francis			724 Cooper Rd.	833-6923	724 Cooper Rd., Raleigh, NC
Witt, Ellis Eldward	SR	AMA			Rt. 1, Trinity, NC
Witted, Victor Wayne	SO	MEA	602 Latta St.	828-4808	602 Latta St., Raleigh, NC
Whitten, Samuel Randall	SO	NE	132 Woodburn Rd.		537 Highland Ave., Henderson, NC
Whitten, Stephen Land	SO	ARC	2407 Clark Ave.		217 Jones Cir., Thomasville, NC
Whittington, Hartwell Carroll	SO	IA	1509 Hillsboro St.	TE4-2556	Box 114, Coates, NC
Whitty, Elmo Benjamin	GR		Bx 3219	TE2-9263	Lee, FLA
Wholesale, Stanley Griffin	SO	MEA	217 King Charles	TE4-9603	217 S. King Charles Rd., Raleigh, NC
Whatt, Fayette Conquest	SO	POM	Mid-Pine Rd.	833-4223	Mid-Pine Rd., Raleigh, NC
Whatt, Jacquelyn Walker	UN	GS	Rt. 4, Raleigh	833-4223	Mid-Pine Rd., Raleigh, NC
Wicker, Charles Randy	FR	NE	53 Tucker Bx 4803		104 East "I" St., Erwin, NC
Wicker, Richard Kelly, Jr.	SO	CNE	8 Ferneld Lane		1727 Thornsedale Dr., Asheboro, NC
Wicker, Walter Vernon		EE	2623 Grant Ave.		4707 Crystal Ave., Sarasota, FLA
Wickham, Robert Ellsworth		ED	138 Coliseum		4204 Western Blvd., Raleigh, NC
Widenhouse, Richard Lee	SO	CHE	1408 Banbury Rd.		1401 Goodwin Ave., Charlotte, NC
Widenhouse, William Carroll	SC	ME	2210 Bragaw Bx 15143		108 Mimosa St., Morganton, NC
Wiegand, Rudolf Paul, Jr.	JR	AFY	318C Bragaw	TE4-9253	5501 Twin Lane, Charlotte, NC
Wieland, Frederic George	SR	FMN	222 Hillcrest Rd.	TE2-7708	1236 Mitchell Ave., Statesville, NC
Wigs, Helen Jackson	SR	GS	2512 Vanderbilt	TE4-8656	237 Kemwood, Wilmington, NC
Wiggins, Elmer Floyd	FR	ATE	138 Owen Bx 4432		Rt. 2 Box 112, Ayden, NC
Wiggins, James Roberts	JR	TXT	7 Enterprise St.	TE4-0435	Rt. 1, Louisburg, NC
Wiggins, John Robert	SR	TC	306 Griffis, Cary	H07-9433	306 Griffis St., Cary, NC
Wigley, Robert Bryan	FR	EE	303 Watauga Bx 3039		Box 25, Morven, NC
Wilber, Robert Earle, Jr.	GR	EE	206 Gold Bx 3218	TE2-9263	328 Lenox Ave., Norfolk, VA
Wilbur, Robert Linn	SO	ASW	1718 Hillsboro St.	VA8-4464	515 Old Lancaster Rd., Haverford, PA
Wilcox, David Eaton	FR	GS	111 Alexander Bx 4108		2021 Forest Hill Dr., Silvery Spring, MD
Wilday, Peter Bennet	SR	ARC	125 $\frac{1}{2}$ Woodburn Rd.		586 Rahway Ave., Westfield, NJ
Wilder, Albert Green	JR	RPA	3090 Bragaw		909 Morehead Ave., Greensboro, NC
Wilder, Lawrence Tirrell	FR	ENG	Tucker Bx 4722		Box 353, Coco Solo, Canal Zone
Wilder, Sam Werthy, Jr.	JR	EE	709 W. Pineland Dr.	TE3-4133	709 W. Pineland Dr., Raleigh, NC
Wilder, William Augustus, Jr.	MR	ANS			Rt. 1, Knightdale, NC
Wilder, William Michael	FR	CEC	205 Watauga Bx 3023	TE2-9132	Box 97, New London, NC
Wiley, Donald Kent		A	801 W. Morgan St.		801 W. Morgan St., Raleigh, NC
Wiley, John Randolph	JR	IATO	2500 Greenway Ave.	834-8520	116 River Rd., Washington, NC
Wilfang, James Garfield			1903 Alexander Rd.		84 Fayette St., Buckhannon, W.VA.
Wilfong, John Winfield	SC	TXT	Q-304 McKimmon Vill.		Box 103, Claremont, NC
Wilhelm, Steven Gilbert	JR	FOR	205 Owen Bx 4462	TE2-9252	Rt. 5, Chillicothe, OHIO
Wilkerson, Charles Vernon	SR	ATE	1906 Fairfield Dr.	828-5932	Rt. 4, Roxboro, NC
Wilkerson, Joseph McCullam	SO	CE	243 Tucker Bx 4712		Rt. 2, Roxboro, NC
Wilkins, Charles Andrew	SC	NE	1710 Hillsboro St.	TE4-2001	1110 Buckingham Rd., Greensboro, NC
Wilkins, John Lewis	SR	AEL	Tucker Bx 4795	TE2-9237	Rt. 1, Stem, NC
Wilkins, William Chester	SC	MEA	229 Alexander Bx 4158		Box 335, Pine Level, NC
Wilkinson, Douglas Harold	FR	CE	317 Tucker Bx 4748	TE4-9737	1107 Simmons St., New Bern, NC
Wilkinson, Richard Merle	FR	EE	Bx 4460		Rt. 4, Oxford, NC
Wilkinson, Richard Merle, Jr.	FR	EE	301 Owen Bx 4518	TE4-9300	Rt. 4, Oxford, NC
Wilkinson, Ricky Jeyrl	SO	ME	406C Bragaw Bx 15373	TE4-9754	Rt. 1, Claremont, NC
Wilkinson, Robert Henry	SC	CHE	26 Becton Bx 3728	TE2-9260	Rt. 3, Mooresville, NC
Willard, Calvin Kenneth	JR	ME	1417 Faye St. Garner		212 W. Maryland Ave., Draper, NC
Willard, Hugh Grey	FR	MEA	135 Owen Bx 4429	832-9115	1241 Maxwell St., Salisbury, NC
Willard, Peary Allen	SO	EE	129 Syne Bx 3529		3510 Euclid St., Greensboro, NC
Willett, Michael Otto	JR	TXT	127 Hawthorne Rd.	834-5838	1000 Neal St., Greensboro, NC
Willey, Wilford Lloyd	MR	JIS	140 Coliseum		3210 Burns Pl., Raleigh, NC
Williams, Barry Wayne	FR	MEA	911 Gardner St.	TE2-1686	715 Raleigh Rd., Lexington, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Williams, Bennett Wayne	SO	CE	316 Becton	TE2-9372	507 1st St., Ahoskie, NC
Williams, Billy Mason	SO	AMA	16 Enterprise	828-6804	1814C View Dr., Durham, NC
Williams, Brooks Monroe	JR	EE	120 Syme Bx 3520	832-9288	908 W. Hines St., Wilson, NC
Williams, Bryan Lee	SR	AMA	P-217 McKimmon Vill.		Rt. 3 Box 155, Rocky Mount, NC
Williams, Charles Robert	JR	EE	2512 Clark Ave.	TE2-4893	303 Valley Rd., Fayetteville, NC
Williams, Charles Lifsey	FR	CE	1601 Hillsboro St.	TE2-6601	6429 Roselawn Rd., Richmond, VA
Williams, Claude Willie	SO	ME	325 Becton Bx 3793	TE2-9372	Rt. 3, Hertford, NC
Williams, Crawford Edgar	FR	EE	Watauga Bx 3044	TE2-9132	Rt. 4 Box 127, Durham, NC
Williams, Donald Ralph	FR	TXT	124 Syme Bx 3524		Box 1100, Salisbury, NC
Williams, Eddie Arnold	FR	NE	349 Tucker Bx 4776	TE2-9323	Rt. 3 Box 468, Morganton, NC
Williams, Edward Harold, Jr.	JR	ARC	2504 Vanderbilt Ave.		2504 Vanderbilt Ave., Raleigh, NC
Williams, Emmett William, Jr.	FR	AMA	364 Owen Bx 4575		2109 E. Mulberry St., Goldsboro, NC
Williams, Francis Newell	SO	ME	250 Tucker Bx 4717		501 E. Third St., Gastonia, NC
Williams, Francis Walter	JR	EE	227 Alexander Bx 4156	TE4-9746	2333 Greenway Ave., Winston-Salem, N
Williams, Frank McGrady	SR	ARC	Rt. 1, Cary	VA8-2550	Box 187, Matthews, NC
Williams, Fred Dixon, Jr.	FR	AGO	57 Owen	832-9142	2340 Westfield Ave., Winston-Salem,
Williams, George Benton	SR	IA	414 1/2 Chamberlain St.	833-5301	724 Stanfield Dr., Charlotte, NC
Williams, George W., III	SR	EE	110C Bragaw		503 W. Side Dr., Lexington, NC
Williams, Glenn Neil	SO	ME	Alexander Bx 4180	TE2-9349	Rt. 1 Box 29, Randleman, NC
Williams, Harold Jackson	SR	MED			Rt. 3, Apex, NC
Williams, Harriette Louise	JR	ARC	130 Cox Ave.	TE4-0056	425 Eldred St., Valdese, NC
Williams, Jack Ronald	SR	AGI	325 Syme Bx 3557	832-9150	Fallston, NC
Williams, James Hunter	FR	PD	306 Syme	TE2-9222	Qts 845, Farris Island, SC
Williams, James Varnado, Jr.	SR	PPT	Bx 5667	834-9378	1039 E. Chalat Dr., Mobile, ALA
Williams, Jerry Dean	SO	MEA	106 Ashe Ave.		Rt. 1, Oakboro, NC
Williams, Jerry Orway	GR	CE	208C Bragaw Bx 15273		1441 Perkin St., Alcoa, TENN
Williams, John Ralph	SC	EE	Bx 15202		Box 193, Tryon, NC
Williams, John Wesley, III	SR	ASR	2311 Byrd St.	TE2-3285	1013 Elm St., Weldon, NC
Williams, Joseph Dwight	FR	ME	352 Tucker Bx 4779	TE2-9323	507 First St., Ahoskie, NC
Williams, Joseph Speed, III	SO	TXT	223 Hillcrest Rd.	TE2-7708	4514 High Point Rd., Greensboro, NC
Williams, Larry Turner	JR	CE	Bx 15348		108 W. 4th Ave., Gastonia, NC
Williams, Luther Erwin	SR	PMH	130 Cox Ave.		245 Elwood Dr., Valdese, NC
Williams, Marvin Douglas	JR	EE	211 Park Ave.		1005 Little John Trail, Kannapolis, I
Williams, Melvyn Douglas	FR	ME	Bx 4188		618 Summit Ave., SprucePine, NC
Williams, Milton Guy, Jr.	DR	CHE	1328 Kent Rd.	828-4044	703 Edward Ave., Kinston, NC
Williams, Myron Randolph	JR	EE	2715 Kilgore		1502 W. Va. Ave., Dunbar, W.VA.
Williams, Raymond Woodrow	SR	EE	211 Park Ave.		1005 Little John Trail, Kannapolis,
Williams, Richard Planck	JR	EE	325 Syme Bx 3589	TE2-9222	327 Glenburny Dr., Fayetteville, NC
Williams, Richard Stanley	JR	ME	325 Bagwell	834-9151	Bx 352, Myrtle Beach, SC
Williams, Robert Douglas	JR	AED	Alexander Bx 4130	TE2-9257	Rt. 1, Staley, NC
Williams, Robert Frank	FR	MEA	325 Bagwell	834-9151	Myrtle Beach, SC
Williams, Roger Garron	SO	TXT	130 Cox Ave.	834-0056	425 Eldred St., Valdese, NC
Williams, Roy Colon	SO	ME	2228 Hillsboro St.	833-5082	Eagle Springs, NC
Williams, Roy Douglas	SR	CE	2209 1/2 Hope St.	834-3244	Rt. 1 Box 165, West End, NC
Williams, Stephen Leon	JR	NE	406A Bragaw Bx 15371	TE4-9754	1704 Lane St., Kannapolis, NC
Williams, Sylvia Janice	FR	CH	1301 Brooks Ave.	VA8-4248	1301 Brooks Ave., Raleigh, NC
Williams, Ted Charles	FR	EE	125 Turlington	834-9279	Tapoco, NC
Williams, Thomas Harold, Jr.	SR	EST	317 Oberlin Rd.	TE2-0229	317 Oberlin Rd., Raleigh, NC
Williams, Thomas Ryland	FR	EE	2521 Clark Ave.	828-9508	Box 277 Bethlehem Rd., Rocky Mt., N
Williams, Warren Ailing	JR	KPA	2500 Country Club Ct.	TE2-5910	2500 Country Club Ct., Raleigh, NC
Williams, William Alton	FR	CE	220 Bagwell	TE2-9131	Rt. 1 Box 35, Norlina, NC
Williams, William Dersey, Jr.	SR	FOM	Bx 3701	TE2-9256	Box 134, Lilesville, NC
Williams, Wilton Alexis	FR	ASW	Q-119 McKimmon Vill.		Rt. 1, Monroe, NC
Williams, Winfred Lee, Jr.	SR	ASE			Rt. 2, Marshville, NC
Williamson, Calvin Lloyd	FR	AGE	Tucker	TE2-9323	Rt. 1, Clarksville, VA
Williamson, James delmos	FR	ARC	1516 Glenwood Ave.	TE2-9648	1516 Glenwood Ave., Raleigh, NC
Williamson, Preston McCalipin	SO	ARC	213 Watauga Bx 3031	TE2-9132	1604 19th St. N.E., Winston-Salem, NC
Williamson, Thomas Edison, Jr.	FR	GS	414 Yarmouth Rd.	TE2-2545	414 Yarmouth Rd., Raleigh, NC
Williamingham, Obie Richard, Jr.	JR	FOM	104 Berry Bx 4304	TE2-3950	116 Hawthorne Dr., Brevard, NC
Willis, Donovan Jordan, Jr.	FR	ME	317 Owen Bx 4532		209 Hillside Ave., Charlotte, NC
Willis, Fred Swindell	SO	ME	213 Cox Ave.		Rt. 1 Box 608A, Morehead City, NC
Willis, James Belmont	FR	ARC	904 Canterbury Rd.	TE3-5196	104 N 10th St., Morehead City, NC
Willis, Joseph William	SR	CE	Hx 3110	TE2-9159	Rt. 3, Lawndale, NC
Willis, Ophard Harold	SR	EE	3151 Stanhope Ave.	TE2-8352	Rt. 3, Mars Hill, NC
Willis, Robert Lee, Jr.	SO	A&D	Hx 4151	TE4-9746	Rt. 3, Lawndale, NC
Willis, Marshall Ward	GS		64 Owen Bx 4598	832-9142	2415 Elizabeth Ave., Winston-Salem, N
Wilson, Bobby Roscoe	UN				Rt. 2, Apex, NC
Wilson, Charles Leonard	FR	IE	Bx 15317		308 Woodhaven Dr., Jacksonville, NC
Wilson, Charles Ross	FR	MEA	6 Becton Bx 3808	832-9261	207 Hammond St., Durham, NC
Wilson, Charles Thomas	SO	CE	213 Berry		908 Demerius St., Durham, NC

NAME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
Wilson, Craig Stephen	FR	CE	50 Owen	832-9142	1004 Florida St., Greensboro, NC
Wilson, Daniel Maurice	SO	AMA	315 Syme		Rt. 4 Box 207B, Marion, NC
Wilson, Eugene Franklin	FR	E	251 Owen Bx 4502	932-9252	410 Ardmore Rd., Charlotte, NC
Wilson, George Harold	JR	CHE	1408 Park Dr.		Box 57, Raeford, NC
Wilson, Henry Fletcher, Jr.	SO	EE	109A Bragaw Bx 15017		Rt. 4 Box 10, Siler City, NC
Wilson, Hugh Thomas	FR	AHC	313 Becton Bx 3781	TE2-9372	905 N. Magnolia, Raeford, NC
Wilson, Jack Wilcox	SO	ME	314 Bagwell	834-9151	1001 E. Maple Ave., Gastonia, NC
Wilson, James Grant	JR	NEL	302 Syme Bx 3560	TE2-9222	317 50th St., Newport News, VA
Wilson, James Donald	SO	CEC	111 Watauga Bx 3011		240 N. Mulberry St., Statesville, NC
Wilson, James Phenix, II	JR	NE	813 Chamberlain St.	828-0292	813 Chamberlain St., Raleigh, NC
Wilson, James Hyde	SR	IA	407 Stacy St.	TE2-3418	407 Stacy St., Raleigh, NC
Wilson, Jerry David	FR	AGI	227 Tucker Bx 4678	TE2-9387	Rt. 1, Bear Creek, NC
Wilson, Julian Boyce	JR	TXT	E-21 McKimmon Vill.	834-5427	Liberty, NC
Wilson, Rex Orlando, Jr.	FR	GE	O-16 McKimmon Vill.		Box 156, Spruce Pine, NC
Wilson, Richard H.	NR	FF			3830 Cherokee Dr., Madison 5, WIS
Wilson, Ronald Clay	FR	ME	Tucker Bx 4050	TE2-9367	Rt. 4, Shelby, NC
Wilson, Stanley Hampton	SR	WA	4508 Avenet Ferry Rd.	833-5283	2508 Avenet Ferry Rd., Raleigh, NC
Wilson, Terry Eugene	FR	TAT	142 Syme Bx 3522	TE2-9288	3 Marginal St., Cooleemee, NC
Wilson, Walter Huger	SO	AGI	163 Owen Bx 4454	832-9115	Rt. 1 Box 199, Galax, VA
Wilson, Walter Thomas	MR	CE	2018 Broadwell Dr.	TE4-1298	2618 Broadwell Dr., Raleigh, NC
Wilson, William Walker	SR	CEC	1620 Hillsboro St.	TE4-9378	240 N. Mulberry St., Statesville, NC
Wilson, Woodrow Frank, Jr.	FR	MA	107 Tucker	TE2-9367	527 S. Beltline, Columbia, SC
Wilson, Winfred Graham	SR	IE			610 Woodbridge Lane, Burlington, NC
Wiltshire, Robert Arlington, II	SO	EE	142 Alexander Bx 4117	TE2-9257	5328 Saratoga Ave., Chevy Chase, MD
Windley, William Clyde	FR	NE	339 Alexander Bx 4199	TE2-9349	516 Warren St., Williamston, NC
Wingard, Theodore Kistler	JA	ME			1117 Sherwood Dr., Burlington, NC
Winkler, John Louis	SR	ASZ	509 Gardner St.	TE2-1370	509 Gardner St., Raleigh, NC
Winn, Robert Dwight, Jr.	JR	ME	2707 Bedford Ave.	TE2-9305	2707 Bedford Ave., Raleigh, NC
Winn, Thomas Patrick	JR	FOR	16 Syme Bx 3612	TE2-9421	71 Pilgrim Rd., Wellesley, MASS
Winslow, Allen Powers	SR	ME	2513 Clark Ave.	TE2-0268	401 Lindley Rd., Guilford College, NC
Winslow, Jimmie Lon	SC	AGI	Bx 4645	TE2-9388	Rt. 3 Box 528, Elizabeth City, NC
Winslow, John Calvin	FR	EE	116 Owen	TE2-9437	Rt. 2, Hurdle Mill, NC
Winslow, John Vernon	SC	AGI	202 Tucker Bx 4675		Rt. 2, Hertford, NC
Winslow, Oscar Waldo	FR	ALD	Tucker Bx 4802	TE2-9237	Rt. 1, Hertford, NC
Winslow, Thomas Preston	JR	ME	E-16 McKimmon Vill.		Winfall, NC
Winstead, Geraldine Kelly	UN	GS	509 S. Lakeside Dr.	TE3-5575	509 S. Lakeside Dr., Raleigh, NC
Winston, Francis Clifton	FR	A	304 Becton Bx 3772	TE2-9372	Box 336, Youngsville, NC
Winston, Gregory Hudson	FR	FOR	Bx 4775	TE2-9739	Rt. 2 Box 125, Bumpass, VA
Winston, Walter Leo	FR	CE	6 Becton Bx 3808	832-9261	2003 Ashe St., Durham, NC
Winter, Daniel Townsend	FR	GE	4101 Rowan	TE4-1500	4101 Rowan St., Raleigh, NC
Winton, Charles Newton	SC	AMA	3007 Mayview Rd.	TE3-4763	3007 Mayview Rd., Raleigh, NC
Winton, Mariwynne Elizabeth	SC	FY			2214 Perry Ave., Henderson, NC
Wintzer, Charles Davis	SR	FIT	2512 Clark Ave.		Rt. 1 Box 481-E, Morganton, NC
Wirtz, George Woodrow	SO	EL	408 Syme Bx 3540		Box 397, Carthage, NC
Wise, Augustine Washington	SO	EL	238 Tucker Bx 4708		314 River Rd., Newport News, VA
Wise, Chesley Gerald	SO	IA	324 Bagwell Bx 3390		1056 Dresden Dr. W., Charlotte, NC
Wise, Joe Michael	SR	TXT	1201 Kent Rd.	833-2547	206 Ware St., Shelby, NC
Wise, Michael Stephen	SO	CE	304 E. Park Dr.	TE2-7638	1907 Dellwood Dr., Greensboro, NC
Wisekal, Charles Anthony	SO	FUM	208 Becton Bx 3742	TE2-9334	186 Madison Ave., Baldwin, NC
Wiseman, Daniel Martin	JR	TXT	130 Hawthorne Rd.	TE2-9151	1951 Guy St., Statesville, NC
Wiseman, Omar Royce	SR	EE	Rt. 1, Cary		Rt. 3, Marion, NC
Wiseman, Steven Scott	SR	EE	1306 Hillsboro St.	834-9886	Rt. 2 Box 726, Spruce Pine, NC
Wiser, Allen Carl	SR	AMA			703 N. Harrison Ave., Cary, NC
Wishon, Robert Lee	FR	ME	Bx 4417		Rt. 8, Winston-Salem, NC
Witherington, Charles Mack	SR	EE	115A Bragaw Bx 15028		Box 158, Vanceboro, NC
Witmore, Ronald Kirk	FR	EE	317 Watauga Bx 5083	TE2-9132	215 Williams St., Wingate, NC
Witter, David Emmett	SC	PY	3412 Bradley Pl.	TE3-9903	3412 Bradley Pl., Raleigh, NC
Wohlbruck, Theodore C.	FR	TXT	1335 Chester Rd.	TE4-0414	1335 Chester Rd., Raleigh, NC
Wolf, Robert Spangling	SR	EE	328 Owen Bx 4543	TE4-9300	4511 Baux Mtn. Rd., Winston-Salem, NC
Wolfe, Gene Edward	MR	NE			Box 932, Wendell, NC
Wofford, John Charles	SO	IE	3414 Hillsboro St.	VA8-9181	Llewellyn Wood, Johnson City, TENN
Wolff, Maury	FR	ASV	149 Tucker Bx 4656	TE2-9388	511 Charlotte St., Fredericksburg, VA
Wolford, Norman Henry	SR	EE	5 Daisy St.		Box 134, Crosby, MINN
Woffrey, Stuart Douglas	SO	ARC	108 Welch Bx 3244		14701 Claude Lane, Silver Spring, MD
Womble, Albert Benton	JR	TXT	2601 Clark Ave.	TE2-8631	Rt. 6 Jonesboro, Sanford, NC
Womble, Benny Aaron	FR		Rt. 6	TE2-4047	Rt. 6, Raleigh, NC
Wong, Hugo C.K.	SO	MTE	2624 Kilgore Ave.	TE4-3736	11 Fung Fai Ter., Hong Kong
Wong, Juan Miguel	SC	JHE	343 Owen Bx 4556	TE4-9300	207 Knoll Ave., West Union, OHIO
Wong, Manuel	SO	EE	343 Owen	TE4-9300	207 Knoll Ave., West Union, OHIO
Woo, Warren K.	LR	EST	Box 5393	TE4-0865	Box 5393, Raleigh, NC

AME	YR	CURR	ADDRESS	TELEPHONE	HOME ADDRESS
ao, Joe	GR	WT	2402 Hillsboro St.	TE3-9108	25 Chun Hsin Lane, Formosa
artreuen, Fred Anderson	FR	TAT	53 Owen Bx 4587	TE2-9142	318 Moore Dr., Lexington, NC
artrough, James Lowell	SO	ME	Bx 3253	TE2-9119	RPD 1, Shelby, NC
artrough, John Wagner	SO	ME	25 Denton Bx 3826	TE2-9261	2514 Liberty St., N.E., Winston-Salem, NC
artreuen, Mary Watt	SO	ANA	3105 Ruffin St.	TE2-2332	3105 Ruffin St., Raleigh, NC
'arbrough, Alonzo Francis	SO	ST	418 Bragaw Bx 15178		3908 Gracemont Dr., Winston-Salem, NC
'arbrough, Robert, Jr.	FR	ARC	Bx 355		105 College Ave., Thomasville, NC
'asinsac, Andrew, II	FR	CE			Sparta, NC
'ates, Harold Thomas	FR	ARC			1001 Alma St., Durham, NC
'anger, Harry Robert	FR	ME	130 Hawthorne	TE2-9151	6-5th Ave., Baltimore, MD
feager, John William	GR	FM	311 Syme Bx 7595	832-9222	833-B N. Center St., Hickory, NC
feager, William Ebenezer	FR	ME	112 Owen Bx 4420	TE2-9437	Rt. 1 Box 605D, Morehead City, NC
felton, Donald Paul	FR	MEA	21 Owen Bx 4476	TE2-9410	Euclid Ave., Marion, NC
feuton, Donald David	FR	MEA	221 Owen Bx 4476	TE2-9410	306 Euclid Ave., Marion, NC
felvelton, George Elliott, Jr.	FR	CE	2116 Mayview Rd.	818-9519	Eureka, NC
felvelton, William Norman	FR	CE	228 Bagwell Bx 3360		Main St., Fremont, NC
Yniguez, Amador D'Bayan	GR	TAT	219 Forest Rd.	834-4159	College, Laguna, Philippines
Yoner, James Kennedy	FR	LA	2208 St. Mary's	TE2-4193	2208 St. Mary's St., Raleigh, NC
Yoney, Donald Eugene	FR	MEA	209 Watauga Bx 3027	TE2-9132	132 Underhill St., High Point, NC
Yonce, John Wesley	FR	CE	1501 Benehan St.	TE4-0271	1000 Leicester Rd., Richmond, VA
Yopp, Angela	GR	SED	1814 Park Dr.	TE3-0874	Rt. 1 Box 547, Snead's Ferry, NC
York, Arthur Robert	GR	ME	Bx 3518		15 Sunset Trail, Asheville, NC
York, Benner Neil	GR	ME	502 Tilden St.		Rt. 3, Waynesville, NC
York, Carey Franklin	GR	CE	3600 Western Blvd.	828-8952	Box 351, Pinetops, NC
York, Elvin Eugene, Jr.	FR	A	18 Stadium Bx 4363		Rt. 1, Asheboro, NC
York, Ernest Wayne	GR	TAT	Bx 129, Cary	467-2597	Ramseur, NC
York, George Smedes	FR	CE	1710 Hillsboro	TE4-2001	1904 Craig St., Raleigh, NC
York, James Wesley, Jr.	FR	AFY	5014 Tanglewood Dr.	VA8-7353	5014 Tanglewood Dr., Raleigh, NC
Yorke, Charles Alvin	FR	CE	2703 Westford Ave.	828-2879	Rt. 3, Concord, NC
Young, Carlton Gene	FR	MEA	721 N. Kimbrough St.	TE4-3563	721 N. Kimbrough St., Raleigh, NC
Young, Daniel Henry	FR	ME	H-11 Echinnon Vill.	832-4864	2503 Hubbard St., Jacksonville, FLA
Young, David Alan	FR	ME	19 Stadium		3139 Weaver Ave., Baltimore, MD
Young, Francis Nicholls	SO	ME	1546 Iredell Dr.	TE3-4146	1546 Iredell Dr., Raleigh, NC
Young, Gilbert Earl	FR	PSM			Rt. 3, Wake Forest, NC
Young, Douglas Leigh	FR	ME	332 Tucker	TE4-9739	1101 Longview Dr., New Bern, NC
Young, John Wesley, III	FR	ME	306 Bagwell Bx 3372	828-4151	210 West St., Ahoskie, NC
Young, Merritt Leslie	FR	FM	1720 Hillsboro St.	VA8-9200	Norwood, NC
Young, Richard Anthony	SO	CE			Box 65, Princeton, NC
Young, Robert Wright	SO	ARC	304 Berry		1701 Glendale Ave., Durham, NC
Young, Samuel Remmel	SO	ME	332 Bagwell	TE4-9151	429 Sunset Ave., Roanoke Rapids, NC
Young, Roy Edward	FR	ASE	Fourth Bx 1131	TE2-9159	Rt. 1 Box 298, Norlina, NC
Young, Thomas Howard	SO	ASE	Syme Bx 3506		Rt. 1 Box 298, Norlina, NC
Young, Warren Hoyle, Jr.	GR	ME	120 N. Henderson	833-9055	Burgaw, NC
Young, Whitney L., Jr.	GR	EST	2209 Hope St.	TE4-3244	2102 Spruce St., Fayetteville, NC
Youngblood, William Perry	GR	ME	1501 Benehan St.	TE4-0271	Rt. 1, Huntersville, NC
Youngman, Robert Sterling	SO	LA	304 E. Park Dr.	TE2-7638	3433 DeKalb Ave., New York, NY
Yount, Avery Louis	FR	CE	212C Bragaw Bx 15281	828-7759	Rt. 3 Box 570, Newton, NC
Yount, James Leroy	FR	CE	314 Tucker		Rt. 3, Box 570, Newton, NC
Yount, Marvin Edward	FR	GS	Bx 3562	832-9150	433 Ward St., Graham, NC
Yount, Roy Wayne	FR	TAT	212C Bragaw Bx 15281	828-7759	Rt. 2 Box 205, Conover, NC
Younts, Joel Lindsay	GR	CE	303 Brooks Ave.	833-5578	Rt. 2, Lexington, NC
Yow, John Roland	GR	ME	200 Brooks Ave.	TE2-4331	Rt. 2 Box 385, Seagrove, NC
Yow, Randall Lee	FR	CE	221 Tucker	TE2-9387	906 Barbee, High Point, NC
Yu, George Chung-Nien	SO	ARC	106 Gold Bx 3206		411 Rua Capote Valente, Sao Paulo
Yurcho, Robert John	GR	PSW	313 Alexander Bx 4176	TE2-9349	58 Cedar Lane, Princeton, NJ
Zaalouk, Mohamed Gamai	GR	ME	Bx 5803	TE4-6679	134 Great Sea St., Egypt
Zaki, Mohamed Abd el Halim	GR	ARC	Bx 5805		39 Harria St., El Minia, Egypt
Zangas, Robert John	SO	ME	123 Brooks Ave.	TE2-8764	145 Pine St., Garden City, NY
Zaras, Artie	SO	ME	Bx 3314	TE4-9219	203 Roberson St., Rockingham, NC
Zehner, William James	GR	ME	5655 Western Blvd.	TE3-2387	405 W. Hillcrest Ave., Dayton, OHIO
Zeppilli, Renato	FR	AI	211 Park St.		Huaraz 565 Brena, Lima, Peru
Zerbach, Earl Dunn	FR	ME	128 Syme Bx 3526	832-9288	Box 266, Troy, NC
Zett, Mires Joseph	FR	MEA	336 Tucker Bx 4766	TE2-9323	221 Fisher St., High Point, NC
Ziglar, Frank Conder	GR	CE	304A Bragaw Bx 15317		1508 Powell Dr., Raleigh, NC
Ziglar, Paul	SO	ASE	326A Bragaw Bx 15359	TE3-7628	1508 Powell Dr., Raleigh, NC
Zimmerman, James Lee, Jr.	SO	CE	Bx 4712		Rt. 8 Box 92, Lexington, NC
Zobel, Donald Bruce	GR	FM	109 E.S.King R.C.		Rt. 4, Raleigh, NC
Zook, James Russell	FR	ME	Host Apt. Syme	TE4-2493	Box 3515, NCSC, Raleigh, NC
Zuckerman, David Sol	GR	ARC	214 Alumni Bldg.	TE2-7638	343 Huguenot Ave., Union, NJ
Zombrunnen, Thomas P., III	GR	MEA	11 Syme		Box 5312, NCSC, Raleigh, NC
Zung, Ronald B.	UN	LA	2624 Kilgore Ave.	TE4-3736	68 Flower Market Rd., Kowloon, Hong Kong
Zwicky, Henry Arnold	GR	ME	2510 Clark Ave.	VA8-3942	2216 Woodberry Dr., Greensboro, NC

FREQUENTLY CALLED OFF-CAMPUS NUMBERS

Meredith College
(Regulations - Freshmen May Not Use
Telephone Between 7:30 and 10:00 p.m.
Week Nights, And 11:15 p.m. and 7:15
a.m. Seniors May Use Dorm Phones Dur-
ing Study Hours. (Limit Calls to Five
Minutes.)

Switchboard	TE 3-6461	
Brewer Dorm	1st. Floor	TE 2-9165
	2nd. Floor	TE 4-9294
	3rd. Floor	TE 4-9284
Faircloth Dorm		
	1st. Floor	TE 2-9163
	2nd. Floor	TE 4-9209
	3rd. Floor	TE 4-9293
Vann Dorm		
	1st. Floor	TE 2-9166
	2nd. Floor	TE 4-9191
	3rd. Floor	TE 4-9394
	4th. Floor	TE 4-9331
Springfield Dorm		
	1st. Floor	TE 2-9160
	2nd. Floor	TE 4-9387
	3rd. Floor	TE 4-9182
	4th. Floor	VA 8-9149
Johnson Hall		TE 4-9208
Jones Auditorium		TE 4-9284

Peace College
(Regulations - Telephone Hours on Weekdays
2:30 to 6:00 p.m. and 6:30 to 7:30 and
10:00 to 10:40 p.m. All Day Saturday and
Sunday.)

Switchboard	TE 2-2881
St. Mary's College	VA 8-2521

Telephone Hours as Follows:

Weekdays:
8:00 - 8:30 a.m.
1:30 - 1:45 p.m.
3:45 - 5:55 p.m.
6:30 - 7:30 p.m.
9:30 - 10:10 p.m.
Saturday
9:30 a.m. - 12:55 p.m.
1:30 p.m. - 5:55 p.m.

6:30 p.m. - 10:10 p.m.
Sunday
9:00 a.m. - 10:30 a.m.
12:15 p.m. - 12:55 p.m.
1:30 p.m. - 2:00 p.m.
3:30 p.m. - 5:15 p.m.
6:40 p.m. - 10:10 p.m.

No Call Should be Over 3 Minutes

Rex Hospital Nurses Home	
Switchboard	VA 8-6211

(Regulations - No Calls to Freshmen
Between 7:30 and 9:30 p.m. Weekdays.
No Calls May be Made After 10:30 p.m.)

State Hospital Nurses Home	
Switchboard	TE 2-7581
Pay Phone	TE 4-9819

YMCA	
Main Desk	VA 8-3205
3rd. Floor	TE 4-9743
4th. Floor	TE 4-9745

Carolina Hotel	TE 2-8811
Southern Bell Telephone Co.	
Information	113
Long Distance	0
Telephone Out of Order	114

State College P.B.X.	TE 4-5211
State Capitol P.B.X.	TE 4-3611
Ambulance	TE 2-8839
Infirmary	TE 2-7615
Fire Department	TE 2-7733
Police Department	TE 3-1611

Sir Walter Hotel		TE 2-7711
Seaboard R.R. Station	Day	TE 3-2714
	Night	TE 3-7501
Southern R.R. Station		TE 2-6441
Union Bus Station		TE 2-5536
Western Union		TE 2-7761
Taxi		
Yellow		TE 2-5811
Safety		TE 2-8800

CHAPLAINS AT STATE COLLEGE

Rev. Oscar B. Woodrige, Jr., Coordinator of Religious Affairs	
Home	TE 4-1082
Office	TE 2-7184
Rev. Robert W. Hare, Assistant Coordinator of Religious Affairs	
Home	TE 2-5930
Office	TE 2-7184
Rev. Alan H. Barnes	
Home	TE 3-3840

Moravian Student Fellowship	TE 3-3840
Rev. John Cobb	
Home	TE 2-6610
Lutheran Student Fellowship	TE 2-9687
Rev. Neal McGlamery	
Home	TE 4-9604
Wesley Foundation	TE 3-1861
Rev. S. Collins Kilburn	
Home	VA 8-6017
United Student Fellowship	TE 2-1119
Rev. Donald Shriver	
Home	
Presbyterian Fellowship	VA 8-5468
Rev. Roderick Reinecke	
Home	TE 3-4992
Episcopal Canterbury Club	TE 2-7184
Rev. LeRoy P. Richardson	
Home	TE 4-5554
Baptist	TE 2-1835
Rabbi Joseph Levine	

Home	Chapel Hill, N.C. 968-5931
Jewish	942-4057
Father John M. Breunig	
Home	Chapel Hill, N. C.
Newman Club - King Religious Center	TE 2-7184
Rev. R. Fred West	
Home	TE 4-2036
Disciples Student Fellowship	VA 8-5662
Rev. Frank K. Boetian	
Home	VA 8-5004
Evangelical and Reform	TE 3-8407

Rev. Elias K. Stephanopoulos	
Home	TE 4-9609
Eastern Orthodox Holy Trinity Church	TE 3-1755

FRATERNITIES

IPC - 1720 Hillsboro St.	VA 8-9200
Alpha Gamma Rho, 2718 Clark Ave.	TE 3-4545
Delta Sigma Phi, Box 5566, Tryon Rd.	TE 2-9102
Farm House, 1718 Hillsboro St.	VA 8-4464
Kappa Alpha, 1710 Hillsboro St.	TE 4-5359
Kappa Sigma, 2612 Clark Ave.	TE 2-9484
Lambda Chi Alpha, 222 Hillcrest Ed.	TE 2-7708
Phi Kappa Tau, 308 Horne St.	TE 2-7050
Pi Kappa Alpha, 1720 Hillsboro St.	VA 8-9200
Pi Kappa Phi, 7 Enterprise St.	TE 4-8992
Sigma Alpha Epsilon, 3414 Hillsboro St.	VA 8-9181

Sigma Alpha Mu, 304 E. Park Dr.	TE 4-2951
Sigma Chi, 2514 Clark Ave.	TE 2-9148
Sigma Nu, 1620 Hillsboro St.	TE 4-9378
Sigma Phi Epsilon, 2512 Clark Ave.	TE 2-4843
Sigma Pi, 2513 Clark Ave.	TE 2-0268
Tau Kappa Epsilon, 2405 Clark Ave.	TE 2-6543
Theta Chi, 1709 Hillsboro St.	TE 3-6901

COLLEGE

"Ag Student"	EXT. 331	Becton, Basement	TE 2-9261
Agromex	TE 2-9901	Becton, 1st. Floor	TE 2-9256
Athletic Department	TE 2-2407	Becton, 2nd. Floor	TE 2-9334
Alumni Office	TE 3-1010	Becton, 3rd. Floor	TE 2-9372
Coliseum	TE 2-0523	Berry, Basement	TE 2-9350
College Cafeteria	TE 3-4825	Berry, 2nd. Floor	TE 2-9363
College Union, Ext.378	TE 4-7318	IDC, 107 Berry	EXT. 348
Dormitory Rentals	EXT. 349	Fourth Dorm	TE 2-9159
Laundry	EXT. 283	Gold	TE 2-9263
Office of Information Service	EXT. 253	Bragaw, S. Wing Odd	
		1st. Floor	TE 2-9129
Power Plant	EXT. 504	2nd. Floor	TE 2-9185
Nights and Sundays	TE 2-2944	3rd. Floor	TE 4-9179
Registration Office	EXT. 219	4th. Floor	TE 4-9757
Sports Publicity Office	TE 3-5620	Bragaw, N. Wing Even	
Student Activities	EXT. 370 or 215	1st. Floor	TE 2-9180
Division of Student Affairs	EXT. 456	2nd. Floor	TE 4-9123
Student Aid and Employment	EXT. 460	3rd. Floor	TE 4-9253
Student Government	TE 2-8738	4th. Floor	TE 4-9754
Student Housing	EXT. 434	Owen, Basement	TE 2-9142
Student Personnel	EXT. 224	Owen, 1st. Floor	TE 2-9473
		Owen, 2nd. Floor	TE 2-9252
		Owen, 3rd. Floor	TE 4-9836
			TE 4-9300
Student Supply Store	EXT. 511, TE 3-1936		
Technician	TE 2-4732	Syme, Basement	TE 2-9421
Television - WUNC	TE 4-6262	Syme, 1st. Floor	TE 2-9288
Wolfpack Club	TE 4-2241	Syme, 2nd. Floor	TE 2-9150
WKNC Radio Station	TE 2-7861	Syme, 3rd. Floor	TE 2-9222
YMCA, Ext. 202	TE 2-7184	Tucker, Basement	TE 2-9186
		Tucker, 1st. Floor	TE 2-9388
		Tucker, 2nd. Floor	TE 2-9387
		Tucker, 3rd. Floor	TE 2-9323
VETVILLE & MARRIED STUDENT HOUSING			
Manager's Office, UK 5	TE 2-4306		
DORMITORIES			
Alexander, 1st. Floor	TE 2-9257	Turlington, 1st. Floor	TE 4-9279
Alexander, 2nd. Floor	TE 4-9746	Turlington, 2nd. Floor	TE 2-9297
Alexander, 3rd. Floor	TE 2-9349	Turlington, 3rd. Floor	TE 2-9192
Bagwell, 1st. Floor	TE 4-9219	Watauga, 1st. Floor	TE 2-9447
Bagwell, 2nd. Floor	TE 2-9131	Watauga, 2nd. Floor	TE 2-9132
Bagwell, 3rd. Floor	TE 4-9151	Watauga, 3rd. Floor	
		Welch	TE 2-9119

CAMPUS ORGANIZATIONS

<u>NAME OF ORGANIZATION</u>	<u>PRESIDENT</u>	<u>VICE-PRESIDENT</u>
Student Government	Floyd Enlow McCall	Woodrow Manning Taylor
Engineers Council	Paul Nolly Humphreys	John Wilbert Earnhardt, Jr.
Erdahl - Cloyd College Union	Willard Harold Barbee, Jr.	Herbert Ralph Sanborn
Interdormitory Council	Gerald Wayne Robertson	Peter A. Lesslie
Interfraternity Council	William Robert Watson	Richard Lowell Barefoot
Veterans Association	Carter Keames	James Thomson Potter
YMCA	Edward Carlyle Franklin	Garland Henry McAdoo
Senior Class	John Wilbert Earnhardt, Jr.	Jon Garwood Speaks
Junior Class	Maurice Benefield Phillips	Edward Doy Aycoth
Sophomore Class	Thomas Edward Bailey	Eugene Octavius Eagle
Freshman Class		

CAMPUS PUBLICATIONS

THE AGROMEX	Frank Stacy Smith Harold Coleman Enloe	Editor Business Manager
THE TECHNICIAN	Michael David Lea Joseph Elliot Eagles, Jr.	Editor Business Manager
THE TOWER	Dr. Kingston Johns	Editor and Manager
WKNC	Lewis Henry Nelson David Kenneth McCurdy	Manager Business Manager

DISTRIBUTED

BY



Alpha Phi Omega

National Service Fraternity

Seventy-fourth

Annual Commencement

*The North Carolina State College
of Agriculture and Engineering of
the University of North Carolina*

Exercises of Graduation

Voluntary, June 1

Madison, North Carolina

Pages Printed 1111-111

Correction on pages 14, 16, 18,

MUSICAL PROGRAM

Exercises of Graduation

William Neal Reynolds Coliseum

June 1, 1963

CARILLON CONCERT: 9:30 A.M.

The Memorial Tower

Ralph W. Daniel, Carillonneur

NORTH CAROLINA STATE COLLEGE BAND CONCERT: 9:45 A.M.

March — King Cotton Sousa

Orlando Palandrino Haydn

Farandole, from L'Arlesienne Suite Bizet

Zueignung R. Strauss

Pictures at an Exhibition Moussorgsky

The Hut of Baba-Yaga
Great Gate of Kiev

PROCESSIONAL: 10:15 A.M.

March Processional Grundman

RECESSIONAL:

University Grand March Goldman

NORTH CAROLINA STATE COLLEGE BAND

J. Perry Watson, Director of Music

Donald B. Adcock, Assistant Director of Music

COMMENCEMENT PROGRAM

Exercises of Graduation

William Neal Reynolds Coliseum

June 1, 1963

PROCESSIONAL 10:15 A.M. _____ Donald B. Adcock
Conductor, North Carolina State College Band

The audience is requested to remain
seated during the processional

PRESIDING _____ John T. Caldwell
Chancellor, North Carolina State College

WELCOME

INVOCATION _____ Oscar B. Wooldridge
*Coordinator of Religious Affairs
North Carolina State College*

ADDRESS _____ David E. Bell
*Director, Agency for International Development
United States Department of State*

CONFERRING OF DEGREES _____ John T. Caldwell
Chancellor, North Carolina State College
Harry C. Kelly
Dean of the Faculty

Candidates for baccalaureate degrees presented
by Deans of Schools. Candidates for advanced
degrees presented by the Dean of the Graduate
School. Candidates for honorary degrees pre-
sented by their sponsors.

AWARDING OF GOODWIFE DIPLOMAS _____ Floyd E. McCall
President of Student Government

ANNOUNCEMENT OF OUTSTANDING

TEACHER AWARDS _____ John W. Earnhardt, Jr.
President, Class of 1963

REMARKS TO THE GRADUATING CLASS _____ William C. Friday
President, University of North Carolina
Terry Sanford
Governor of North Carolina
John T. Caldwell
Chancellor, North Carolina State College

BENEDICTION

RECESSIONAL

The audience is requested to remain
seated until recessional music is concluded.

SOCIAL HOUR AND DISTRIBUTION
OF DIPLOMAS

Exercises of Graduation

2:00 P.M.

*School and Department Social Periods
(Distribution of Diplomas)*

SCHOOL OF ENGINEERING IN DEPARTMENTS

SCHOOL OF EDUCATION, CARMICHAEL GYMNASIUM

SCHOOL OF PHYSICAL SCIENCES AND APPLIED MATHEMATICS,
118-119 RIDDICK LABORATORIES

SCHOOL OF AGRICULTURE IN DEPARTMENTS

SCHOOL OF FORESTRY, 162 KILGORE

SCHOOL OF TEXTILES, TEXTILE AUDITORIUM

SCHOOL OF DESIGN, BROOKS HALL

DEGREES CONFERRED

June 1, 1963

School of Agriculture



BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

Jointly Administered by Schools of Agriculture and Engineering

Clemon Elton Bass, Jr.	Edenton
James Jackson Buffaloe	Willow Springs
Stanley Mitchell Leary	Camden
Richard Arnold Moore	Aulander
Louis Alan Vance	Plumtree

BACHELOR OF SCIENCE

Agricultural Economics

Donald Williams Baker	Belvidere
Henry Louis Brake, III	Rocky Mount
Robert Charles Cochran	Robersonville
Clarence Preston Cornelius	Troutman
Thomas Holland Gunter	Raleigh
Robert Joseph Harris, Jr.	Raleigh
William Ray Martin	Lenoir
Woodrow Manning Taylor	Deep Run

Agricultural Engineering

Stancil Lawrence Dilda, Jr.	Fountain
Luther William Hedspeth, Jr.	Conway
John Durell Jordan, III	Clarkton

Animal Science

Woodrow Antonia Anderson	Goldsboro
Roger Eugene Collins	Sparta
Robert Wayne Conner	Clover, Va.
Guy Abner Cutler	Washington
Phil Ray Thomas, Jr.	Bakersville

Crop Science

*Reuben Grant Broadwell	Raleigh
Henry Thomas Brown, Jr.	Ahoskie
Edward Franklin Eason, Jr.	Elm City
Bobby Sutton Heath	Trenton
*Roy Walton Mozingo	Princeton
Fentress Horner Munden	Elizabeth City
Edward Calvin Wall	Rural Hall

Food Science

Clarance Preston Cornelius	Troutman
Robert Jackson Drye, Jr.	Charlotte
Charles Finley Rossignol, Jr.	Thomasville

Horticultural Science

Harold Holyoake Jones, Jr.	New Bern
Jimmy Baine Lee	Lumberton

Plant Protection

Joseph Morgan Carpenter, Jr.	Wagram
Joseph Bertram Hollowell, Jr.	Edenton
Hazel Benton Matthews, Jr.	Hertford

Rural Sociology

Mary Helen Barden	Raleigh
Edward Lawrence Garrison	Morganton
John Franklin Speight	Winston-Salem

Soil Science

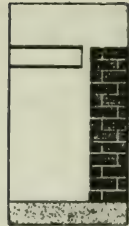
James Lawson Chandler, Jr.	Ruffin
Bobby Joe Conner	Wilmington
Wayne McCaskell Cox	Tabor City
Edward Franklin Eason, Jr.	Elm City
Roy Anderson Goodwin, Jr.	Lumberton
Garland Dan McCullen	Mount Olive
Charles David Raper, Jr.	Whiteville
John Garry Warren	Chocowinity

Zoology

*Ann Elizabeth Franklin Bryson	Asheville
*John Allen Caudle	Lenoir
Francis Bernard Dove, Jr.	Charlotte
John Frank Foy	Bradenton, Fla.
Sterlin Ernest Mason	Belhaven
Hazel Benton Matthews, Jr.	Hertford
*Philip Raiford Miller, Jr.	Concord
*Willis Alton Reid, Jr.	Raleigh
David Ralph Reynolds	Patrick Springs, Va.

* Honors

School of Design



BACHELOR OF ARCHITECTURE

Norman Eugene Bartholomew	Rocky Mount
Joseph Bickett Bass	Winston-Salem
William Randall Bray	Goldsboro
Paul Thurman Briggs, Jr.	Lexington
*Edgar Roger Calloway, III	Kingsport, Tenn.
*Alexander Lewis Carter	Kingsport, Tenn.
Leo James D'Aleo	Jamison, Penna.
Larry Lee Ellis	Raleigh
*Kenneth Lloyd Haggard, II	San Antonio, Texas
William Thomas Harris, Jr.	Durham
William Newell Hartsell, Jr.	Albemarle
*Woodrow Wilson Jones, Jr.	Rutherfordton
Charles Leigh McMurray	Spruce Pine
Michael Gurney Marshall	Winston-Salem
*Gerrard Edmond Raymond	New Orleans, La.
Gunther Johann-Phillip Reuer	Berlin-Dahlem, Germany
Robert Calton Riddle	Sanford
*Philip Augustus Shive	Scotts
John Knox Smith	Birmingham, Ala.
Alva Hill Ward, III	Wilmington
David Newkirk Weed	Westfield, N. J.
James Belmont Willis, Jr.	Morehead City

BACHELOR OF LANDSCAPE ARCHITECTURE

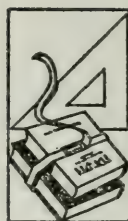
Roger Allen Briggs	Lexington
Albert Heath Carrier, III	Charlotte
*David Delano Teachout	Los Angeles, Calif.

BACHELOR OF PRODUCT DESIGN

Jerry Manley Cebe	Durham
Clarence Russell Duncan, Jr.	Lincolnton
Robert William Leath	Sanford
Victor Aaron Pickett	Durham
Calvin Collins Pippin	Smithfield
Emory Welch Sadler	Kenansville
Arthur James Shepard, Jr.	Asheville
*Louie Willard Watkins, Jr.	Wilmington

* Honors ** High Honors

School of Education



BACHELOR OF SCIENCE IN EDUCATION

Agricultural Education

*Bobby Gene Brock	Wade
**Hugh Alexander Clark	Elizabethtown
Edward Snuggs Dennis, Jr.	Clarkton
Crawford Monroe Enzor, Jr.	Fair Bluff
*Benny Bryant Hampton	Elkin
Millard Cleveland Howell, Jr.	Wadesboro
James Willis Lawson	Orrum
James Mack McCormick	Sanford
Henry Lloyd Miller	Salisbury
Samuel Max Parker	Mount Ulla
William Gene Powell	Robersonville
Jennings Bryan Smith, Jr.	Harbinger
*John Marvin Soles	Whiteville
James Clifton Teachey	Rose Hill
John Lewis Wilkins	Stem

Mathematics Education

Stuart Lee Cozort, Jr.	Morganton
Robert James Fleming, Jr.	Fuquay Springs
Cecil Frank Harrington	Winston-Salem
*John Chase Key	South Charleston, West Va.
Gaynell Paul Logue	Charlotte
George Madison Mann, Jr.	Wilmington
Peter Louis Marchetti, Jr.	Richmond, Va.
*Johnny Stephen Martin	Lenoir
Robert Stanley Nemmers	Raleigh
Benny Morris Pearce	St. Pauls
John Luther Pitt	Red Oak
Jan Ball Price	Dudley
Donald Lee Provo	Wilson
John Marvin Thigpen	Mount Olive
Michael Thomas Tillman	Roxboro
*Nancy Carole Wall	Durham
James Grant Wilson, Jr.	Newport News, Va.

Science Education

*Angela Yopp	Snead's Ferry
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* Honors ** High Honors

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

Marion Robert Croom	Raleigh
Gary Graman Fleming	Henderson
Ernest Pinkney Freeland, Jr.	Charlotte
John Courtney Hill	Raleigh
Owen Daniel House	Nashville
Michael David McCulley	Cherry Point
James Philip McGwier	Greensboro
James Riddick Marks	Raleigh
Thomas Avery Nye, Jr.	Orrum
Jerry Hamilton Patrick	Raleigh
Ronald Frederick Price	Greensboro
James Calvin Saunders	Rockingham
**Charles Paul Stanley, Jr.	Williamston
Kermit Harold Stewart	Lillington
John Wesley Utley	Raleigh

BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION

Jerry Wayne Cordell	Raleigh
Faye Frances Fakler	Raleigh
†Stacy Bernard Gillen	Steubenville, Ohio
John Dennis Golden	Philadelphia, Penna.
Thomas Blair Hines	Raleigh
Ronald Jerome Krall	Conway, Penna.
Bert Deems May	Goldsboro
Frank Pius Nauss	Raleigh
Jasper Glenn Owens	Morganton
†Peter Paul Starr	Shenandoah, Penna.
Roy Colon Stephenson, Jr.	Raleigh

School of Engineering



BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Paul Brittle Blount	Franklinton
James Isaac Bruton	Fremont
Larry Bryan Carawan	Wilmington
Wayne Greer Case	Mayodan
Burnell Parker Curtis, Jr.	Wilmington
*John Wilbert Earnhardt, Jr.	Winston-Salem

* Honors ** High Honors

† In Absentia

John Doane Ellenberg	Raleigh
Roger Alden Fleming	Bronx, N. Y.
Arthur Holmes Foland	Bluefield, West Va.
*David Edward Freas	Walnut Cove
Robert Eugene Furr	Locust
Gilbert McClung Gillespie, Jr.	Robbinsville
Richard Henry Hudson	Valdese
*Malcolm Robert Judkins	North Augusta, S. C.
Larry Slate McBride	Salisbury
David Jolley Ritchie	Concord
*Thomas Carl Ward	Raleigh
*Alan Stuart Weinberg	Greensboro
John Wesley Yonce	Richmond, Va.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

*Marvin Coleman Beasley, Jr.	Gastonia
Billy Burke Best	Stumpy Point
Lucius Cummings Bigelow	Durham
Marcus Spencer Bradley	Hobgood
Robert Earl Brittain	Boone
Jimmy Stephen Caddell	Sanford
Jerry Cagle Callicutt	Asheboro
Charles Frank Chambers	Kannapolis
Grover Cecil Clark	Marshall
Louis Coleman, Jr.	Wilmington
*Lew Gary Clontz	Hudson
Charles Thomas Cochrane	High Point
*William Moncier Cox	New Bern
Needham Clifford Crowe, Jr.	New Bern
Reynold Slade Davenport, Jr.	Jacksonville
Charles Steven Deal	Landis
Stewart Macon Ellington	Henderson
Edward William Ellis, Jr.	Henderson
*Glenn Elliott Futrell	Goldsboro
Kenneth Glen Gillis	Raleigh
Charles Lee Hamilton	Lexington
*Edwin Wilbur Hauser	Lewisville
Donald Ray Hinson	Goldsboro
Kenneth Paul Holt	Greensboro
Richard Franklin Hunter	Raleigh
David Gaut Johnston	Raleigh
James Benton Jones	Charlotte
Joseph Michael Lushene	Satellite Beach, Fla.
Peggy Harper McConnell	Annandale, Va.
Allan Edwin McDuffie	Durham
Herbert Rooney Malcom, Jr.	Rocky Mount
Murdock Henry Markham, Jr.	Raleigh
Robert Barry Melton	Lenoir
Donald Rives Morton	Greensboro
James Otha Murphy	Youngsville
John Franklin Permar	Greensboro
Robert Harold Pohlkotte	Raleigh
Jimmie Ray Pope	Garner
*George Lindmiller Reed, III	Durham
Joe Lanier Riddick, Jr.	Scotland Neck

* Honors; ** High Honors

Robert Parks Sadler, Jr.	Charlotte
*Clay Edward Sams	Franklin
Harold Landis Satterwhite, Jr.	McCain
George Edward Setzer	High Point
Henry Bascom Shore	East Bend
Mickey David Tomlin	High Point
Jasper Leroy Tripp, Jr.	Raleigh
Leon Jackson Ward	Goldsboro
Douglas Edward White	Ahoskie
James Perry Whitfield, Jr.	Durham
*Roy Douglas Williams	West End
Joseph William Willis	Belwood
Carey Franklin York	Pinetops
*George Smedes York	Raleigh
Avery Louis Yount	Newton

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION

*John Rodman Andrew	Washington
Lloyd Carlton Bost, Jr.	Charlotte
James Scott Bowers	Raleigh
Fred Lonnie Callahan, Jr.	Forest City
William John Cameron	Raleigh
Garland Forbes Chick	Rocky Mount
Thomas Gatewood Coffey	Raleigh
Steve Elaine Gentry	Arden
Michael Alvin Goodman	Salisbury
Robert Wallace Griffith, Jr.	Lexington
Guy Doan Griswold	Coatesville, Penna.
Donald Dietrich Haigh	Statesville
Tony Gene Idol	Kernersville
*Charles Edward Jones, III	Lenoir
*Peter Moe Lehrer	Long Beach, N. Y.
Robert Leo Leonard	Lexington
Sherwood Paul Lucas	Dunn
Allan Stoddart Meade	Chapel Hill
Jesse Willard Myers, Jr.	Greensboro
Billy Clyde Parker	Candler
William Lauriston St. Clair	Barrington, Ill.
*Charles Nelson Sigmon	Mooreville
James David Skidmore	Burlington
Malcolm Edwin Sorrells	Asheville
James Lee Stamp	Charlotte
*John Hamilton Steele	Lenoir
Richard Douglas Taylor	Lenoir
Herman Lee Temple, Jr.	Virginia Beach, Va.
William Walker Wilson	Statesville

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Richard Warren Abbott	Ellerbe
Robert Thompson Adams	Winston-Salem
Robert Lee Allen	Newport News, Va.
Clarence Jerreld Baker	Waynesville

* Honors; ** High Honors

Jeter Olive Barker, Jr.	Greensboro
Edward Joseph Baxter, Jr.	Greensboro
†John David Baxter	Raleigh
*James Dale Beasley	High Point
Manouchehr Borookhim	Teheran, Iran
Dewey Tate Bost	Newton
**Charles William Bostian	Charlotte
Harold Thomas Braswell	Winston-Salem
Sumter Coe Brawley, III	Durham
James Elwood Brewer	Candor
Claude Franklin Brinkley	Raleigh
Ramon Paul Britt	Lumberton
Stephen Hunt Brown	Goldsboro
Lionel Herbert Bryson	Sylva
Yates Walter Campbell	Gastonia
Kenneth Franklin Corbett	Battleboro
Jack Winslow Davis	Winston-Salem
John Christopher Deriso	Rockville, Md.
Kenneth Gordon Dial	Kannapolis
Billy Clark Downing	Fayetteville
Harold McDonald Draughon	Zebulon
Johnny Ray Estridge	Ansonville
John Franklin Fenton	Washington, D. C.
Harold Lawrence Fry	Newton
†David Carlton Gardiner	Faulkner, Md.
Wesley Wilson Gilmore, Jr.	Raleigh
*Roger Perkins Gray, Jr.	Winston-Salem
Fred Delano Grubb	High Point
Gunter Balanski Hafer	Laurinburg
William Level Halberstadt, II	Charlotte
James Gaston Harron, Jr.	Asheville
Charles Robert Holder	Winston-Salem
Donald Gene Hubbard	Dallas
William Thomas Jefferson	Chapel Hill
Donald Braxton Jones	Wilson
James Bruce Lawson	Mayodan
*Douglas Seaton Lilly	Abingdon, Va.
George Clyde McBane, Jr.	Hillsboro
Billy Glenn McWhorter	Kannapolis
Charles Anthony Marwitz	Charlotte
Calvin Max Miller	Salisbury
Milton Kent Mills	Mooresville
*Edwin Earl Morris	Windsor
Samuel Ray Morrow	Statesville
*Kenneth David Mozingo	Burgaw
James Harry Olsen	Winston-Salem
Charles Wells Owings, Jr.	Greensboro
George Robert Painter	Plymouth
*Maurice Wilson Partin, Jr.	Kinston
*David Malcolm Patrick	Greensboro
Reid Willis Peterson	Burnsville
*Wayne Binford Roberts	Hillsboro
Dennis Austin Rose, Jr.	Littleton

* Honors; ** High Honors

† In Absentia

Leon Jay Poteet — Morganton

Percy Jennings Searce, Jr.	Danville, Va.
James Matthew Sears	Goldsboro
James Harvey Sexton	Hendersonville
*Tommy Goode Sharpe	Statesville
David Michael Smith	Concord
David Ronald Steinberg	Atlanta, Ga.
*Stavros John Stephanakis	Athens, Greece
*Richard Sidney Stroud	Ayden
John Daley Swank, II	Pittsburgh, Penna.
Donald Wayne Taylor	Fuquay Springs
Darrell Grimes Tetterton	South Boston, Va.
John Allen Thomas	Leaksville
†Charles Benjamin Thompson, Jr.	New Bern
James Broner Tollison, Jr.	Asheboro
Robert Cecil Turner	Greensboro
Larry Irving Watson	Plymouth
Max Donald Watts	Morganton
Richard Allen Whitehouse	Broad Brook, Conn.
*David Wayne Whitlow	High Point
George Washington Williams, III	Lexington
Raymond Woodrow Williams, Jr.	Kannapolis
Steven Scott Wiseman	Spruce Pine
Charles Mack Witherington	Vanceboro
*William Perry Youngblood	Huntersville

BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT

William Claude Davis	Asheville
William Alexander Thorn, III	Morristown, Tenn.

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

James Michael Leatherwood	Clyde
James Peter Oppenheim	Charlotte

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Michael Von Barnhill	Rocky Mount
Thomas Lawson Barringer	Kannapolis
Malcolm James Campbell	Laurinburg
Fred Roscoe Cook	Boone
William George Crawford, Jr.	Goldsboro
Sherman Louis Criner	Winston-Salem
*William Marcus Deal	Lenoir
Johnny Lawrence Dunlap	Burlington
Carlos Escallon Venegas	Bogota, Colombia, S. A.
Irving Barry Goldman	Miami Beach, Fla.
Ronald Phillip Goldstein	Asheville
Ralph Hodges Hackney	Washington
Ralph William Hart	Lansing
Eugene Richard Hughes, Jr.	Raleigh
Paul Nolly Humphreys, Jr.	Raleigh
*George Washington Lester	Martinsville, Va.
Edward Lurey	Asheville
Robert Edward Lynch, Jr.	LaGrange

• Honors; ** High Honors

† In Absentia

Floyd Enlow McCall	Brevard
Michael Rhett Macomson, Jr.	Shelby
Raymond Francis Nemmers	Raleigh
Leston Curtis Parks, Jr.	Salisbury
Ronald Alan Phelps	Louisburg
David Torrence Plonk	Kings Mountain
Wendell Ellsworth Prescott, Jr.	Lake Waccamaw
Kenneth Ray Richardson	Salisbury
Marvin Michael Rogers	Clyde
Walter Franklin Tysinger	Sanford
John Louis Vaughan	Durham
William Robert Watson	Red Springs
Winfred Graham Wilson	Burlington

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

William Mock Alexander	Huntersville
*Bruce Bozarth Allen, Jr.	Charlotte
*Larry Ross Allen	Plymouth
Paul Alderman Anderson, Jr.	Charlotte
Richard Lowell Barefoot	Charlotte
*George Hull Barrett	Washington, D. C.
Samuel James Bright	Whiteville
Harry Shore Britt, Jr.	Clinton
Donald Wayne Brown	Robbins
James Tilden Burns	Atkinson
Steve Lewis Camby	Forest City
William Purcell Campbell	Statesville
John Gordon Cheatham, Jr.	Oxford
*Anthony Earl Collins	Winston-Salem
*Robert Lee Cope, Jr.	Concord
William Frederic Cox	Grifton
Joseph Parker David, Jr.	Middlesex
Frank Earl Denkins, Jr.	Raleigh
*Ronald Lynn Dixon	Siler City
Simon Clayton Dixon	Raleigh
Larry Allen Dotson	Hendersonville
Henry James Elrod, Jr.	Spencer
Robert Bennett Everette	Acme
*William Duke Everhart	Shelby
Herbert Andrew Fishel	Winston-Salem
John Reed Fisher	High Point
George Flosman	Hamilton, Ontario, Canada
George Philip Foster	Winston-Salem
William Edgar Gardner	Kernersville
Charles Henry Geitner, III	Hickory
*James William Grant, Jr.	Charlotte
Charles Robert Green	Brevard
James Rodney Grogan	Mayodan
John Bloice Harper	Burlington
Cecil Frank Harrington	Winston-Salem
John Franklin Harris, III	Shelby
Richard Garfield Hollifield	High Point
James Floyd Horton	Wilson
Charles Edward Hyatt	Elkin

* Honors

Joe Farmer Daniel - Wilson

Charles Duncan Johnson	St. Pauls
Richard Morris Johnson	Graham
William Henry Krauss	Charlotte
Richard Mardis Lamb	Asheville
George Laski	Raleigh
*Jerry Stevenson Lee	New Bern
*Larry Marion Lee	Graham
William Alexander Lee	Newport News, Va.
Frederic Roland Leon	Raleigh
† James Charles Lytle	Marion
Richard Eugene McCommons	Salisbury
Alfred Paul Matheny	Caroleen
David Earl Millinor, Jr.	Wilmington
*Phillip Hunter Morrison	Lenoir
*Harmon Lindsay Morton	Charlotte
Godwin Leroy Noell	Oxford
Agustin Pais Garcia	Santiago de Cuba, Cuba
Clifford Braswell Perry	Chapel Hill
*David Tilden Putnam	Shelby
Clayton Harrison Robinson	Clinton
*Robert Gene Rouse	Magnolia
*Pedro Alejandro Schick	Caracas, Venezuela
Farrell Wayne Scott	Winston-Salem
James Edward Shepherd	Whitsett
Robert Frank Shields	Mebane
Otto Claude Smith	Charlotte
Jerry Wayne Smith	Brown Summit
Winston Churchill Stalcup	Murphy
*Ralph Ellis Stephens	Morganton
Lewis Moore Strong	Raleigh
Carl Edwin Taylor, Jr.	Wilmington
John James Vargo, Jr.	Charlotte
*James Wallace Vogt	Salt Point, N. Y.
William Clyde Walker, Jr.	Durham
Gus Graham Ward, III	Durham
Thomas Bradford West	Charlotte
John Kenneth White	Greensboro
Jerry Oliver Wrightenberry	Burlington
*John Roland Yow	Seagrove

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION

Bobby Lee Berrier	China Grove
Michael Ferrell Brown	Asheville
George Arthur Catherwood	Burlington
Alfred Archibald Forbes, III	Greenville
Lester Lee Frick	Albemarle
Robert William Gandy	Concord
Garl Lacy Gentry	Mount Airy
Luther Warren Gurkin, III	Plymouth
George Claudius Jackson, Jr.	Greenville
Leslie Carrol Leary	High Point
*Clifton Benedict McFarland, Jr.	Camden, S. C.
James Phillip Marshburn	Rocky Mount

* Honors; ** High Honors

† In Absentia

John Rufus Mason	_____	Newport
Charles Baird Powell, Jr.	_____	Jacksonville
Richard Morris Raper	_____	Thomasville
Glenn Albert Robinson, Jr.	_____	Charlotte
William Barry Smith	_____	Kings Mountain
Charles Broughton Thomas	_____	Raleigh
James Francis Tuttle, Jr.	_____	Elizabeth City
Ronald Eugene Yokely	_____	High Point

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Perlie Gene Ashley	_____	Edenton
*William Arthur Brantley	_____	Raleigh
Brian Belk Helms	_____	Greensboro
Jimmie William Mann	_____	Waynesville
*Louis Albert Rader	_____	Darien, Conn.
*Charles Monroe Thompson	_____	Black Mountain
Cheung-Kee Wong	_____	Hong Kong

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

Kenneth Sink Canady	_____	High Point
Charles Oscar Cox	_____	Greenville
*Ronald Jerome Goldstein	_____	Mooreville
*Robert Leslie Mayton, Jr.	_____	Raleigh
James Kirven Morrow	_____	Washington
*Terry Nelson Phillips	_____	Winston-Salem
*Michael Reid Stepp	_____	Canton
*Max Forest Thompson, Jr.	_____	Aurora
Kenneth Richard Thoms	_____	Pearl River, N. Y.
James Wilson Wagoner, II	_____	Reidsville
Bruce Martin Whealton	_____	Burlington
William Clyde Windley, Jr.	_____	Williamston
*Milton Delano Wright	_____	Shelby



School of Forestry

BACHELOR OF SCIENCE IN FOREST MANAGEMENT

*Alan John Aitken	_____	Bovina Center, N. Y.
*George William Baldwin	_____	Vass

* Honors; ** High Honors

Gerald Blake Ballard	Asheville
**Harold Chris Blanchard	Whiteville
Warren Giles Boyette	Clayton
Loyd Bradshaw, Jr.	Franklin, Va.
James Roscoe Burden	Aulander
Robert Holmes Burke	Montclair, N. J.
Donald Pruett Calhoun	Waynesville
Bobby Joe Conner	Wilmington
Edward More Coville	Atkinson
Lawrence Campbell Cross	Apex
Jason Haynes Dunshree	Pantego
James Chandler Eakes, Jr.	Sanford
Burton Rubush Floyd, Jr.	Buena Vista, Va.
*Edward Carlyle Franklin	Richmond, Va.
Joseph Decatur Gardner	Holland, Va.
Robert Larry Greene	Marion
**Daniel Lester Holley, Jr.	Darlington, S. C.
‡Lynn Keith Jackson	Sardis, Ohio
Clyde Allison Lawton, III	Louisville, Ky.
Capson Odes Leonhardt	Morganton
James Edward McCrary	Roanoke Rapids
*James Edward McElroy	Morehead City
Henry Lee Manning, Jr.	Middlesex
Samuel Gerald Mauk	Morehead, Ky.
James Festus Page	Black Mountain
Robert Elwood Roycroft	Wilmington
Charles Roy Rozier	Lumberton
Carl William Rust	Charlotte
**Reese Sherrod Scull	Valdese
George Edward Smith	Clayton
*Michael David Srago	Newburgh, N. Y.
Benjamin Carrol Stansel	Lumberton
Lawson Wright Starnes	Worthington, Ohio
Joseph Eugene Thomas	New Bern
William Dorsey Williams, Jr.	Lilesville

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY

Prem Mohan Agarwala	Lauriya, India
William Michael Amick	Pine Bluff, Ark.
*Elwood Vance Best	Turkey
Francis Bradley Biggar	Monroe, La.
Ronald Lee Blevins	Bristol, Tenn.
John Robert Boughan	West Point, Va.
Thomas Wayne Brown	Statesville
Victor Gerald Dowless	Elizabethtown
**Charles Everett Dunning	Rich Square
‡Augustus Benjamin Groce, Jr.	Nashville, Tenn.
Barre Ryan Mitchell	Wilmington
John Laughridge Moore	Waynesville
*Garnett Despard Quesinberry, Jr.	Floyd, Va.
Gerald Wayne Robertson	Williamston
Alford Lee Smith	Warsaw
William Howard Tickel, Jr.	Roanoke Rapids
Ray Bain Wheeler	Canton

* Honors; ** High Honors

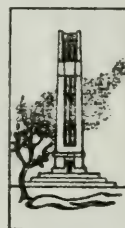
‡ In Absentia

Raymond Russell Uptegrove	Georgetown, S. C.
James Varnado Williams, Jr.	Mobile, Ala.
Charles Davis Wintzer	Morganton

BACHELOR OF SCIENCE IN WOOD TECHNOLOGY

Jack Pritchett Jordan	Mount Gilead
John Louis Scheld	Statesville

School of General Studies



BACHELOR OF SCIENCE

Joseph Henry Kroeger	Raleigh
Helen Jackson Wigg	Wilmington

School of Physical Sciences and Applied Mathematics



BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

**Harvey Thomas Banks	Newton
Barry Bennett Cooper	Fayetteville
William Jacob Craft	Rutherfordton
David Edmund Cribbin	Greensboro
Jerry Mallory Davis	Cincinnati, Ohio
Marvin Kay Dorman, Jr.	Pembroke
**Willard Lee Garrison	Pfafftown
Thomas Emmett Goswick	Durham

** High Honors

*William Scott Guion	Charlotte
Jackson Owen Hinson, Jr.	Greensboro
James Allison Hubbard	Hope Mills
Marion Dixon Huggins, Jr.	Durham
*James Lewis Klingerman, Jr.	Jeddo, Penna.
*Vello Alexander Kuuskraa	Cherryville
Michael David Lea	High Point
Peter Ashby Lesslie	Mount Holly
Lewis Henry Nelson, III	Rome, N. Y.
George Dennis Pipkin	Murfreesboro
Samuel Knight Powell	Charlotte
James Allen Proctor	Vale
*Gary Douglas Richardson	Siler City
William Hugh Roberson, Jr.	Robersonville
*Richard Hyman Shachtman	Winter Park, Fla.
Pomeroy Sinnock, III	New Castle, Ind.
Frank Stacy Smith, III	Asheville
*Robert Demarest Soden	Raleigh
*William McKay Spence	Concord
John Charles Thomas	Thomasville
*James Miller Whisnant	Lenoir
Thomas Michael White	Mooresville
Ellis Eldward Whitt	Trinity
Bryan Lee Williams	Rocky Mount
Stanley Hampton Wilson	Greensboro
*Allen Carl Wiser	Cary

BACHELOR OF SCIENCE IN CHEMISTRY

Rosemary Edna Antel	Raleigh
Jerry Lee Bennett	Kernersville
Horace Glenn Corbett	Fountain
William Thompson Overton	Oxford

BACHELOR OF SCIENCE IN EXPERIMENTAL STATISTICS

James Ralph Batts	Hertford
Walton Carlyle Gregory II	Raleigh
*George Stephen Hutchins	Sanford
Don Newton Mitchell	Durham
John Frederick Schultheis	Raleigh
Thomas Harold Williams, Jr.	Raleigh

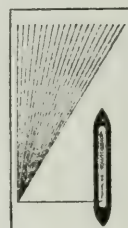
BACHELOR OF SCIENCE IN PHYSICS

Willard Harold Barbee, Jr.	Raleigh
Clyde Capehart Cobb, Jr.	Edenton
*James Lester Cox, Jr.	Reidsville
William Jacob Craft	Rutherfordton
John Scoggin Crutchfield	Reidsville
*Roger Atwood Faulkner, Jr.	Asheville
Edward Gerald Fincher	Charlotte
Richard McConnell Freeman	Charlotte
Ray Wayne Garrett	Moyock
*Benjamin Tyson Gravely	Charlotte
*Leland Moore Hairr	Goldsboro

* Honors; ** High Honors

John Alan Hancock	Wilmington
*Paul Andrew Helminger	Morganton
*Miles Augustus Hughes, Jr.	Edenton
*William Ashley Lucas, II	Fayetteville
*William Arthur McClenney	Lucama
*Martin Aron Mainster	Miami Beach, Fla.
*Gerald Nathan Moore	Fayetteville
*Robert George Pindell	Charlotte
James Thomas Rhodes	Asheville
James Paul Sandifer	Tylertown, Miss.
**William Henry Smyth, Jr.	Denton
*Charles Henry Stallings	Bluefield, West Va.
**Alfred John Stamm	Raleigh
Henry Lankford Thompson	Lynnhaven, Va.

School of Textiles



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

Alain Audet	Montreal, Canada
Albert Ho-Yin Chang	Kowloon, Hong Kong
Harry Oscar DeLoach	Asheville
Carlos Eduardo Eichenwald	Cali, Colombia
Donald Ervin Franklin	Valdese
Jerry Lee Hutchens	Yadkinville
Jagmohan Gordhandas Jhaveri	Bombay, India
Robert Edward May	Kinston
Phillip Thomas Nordan	Benson
Necati Ozgur	Nazilli, Turkey
Kaye Frances Perryman	Lexington
David Ralph Reynolds	Patrick Springs, Va.
Edward Sandidge Roberts	Amherst, Va.
Darryl Lane Shaver	Charlotte
Jerry Emanuel Snider	Lexington
John Robert Wiggins	Cary
Joel Lindsay Younts	Lexington

BACHELOR OF SCIENCE IN TEXTILE TECHNOLOGY

Albert Allen Alabaster	Dunn
Dewey William Berry, Jr.	Hickory
Larry Joe Burleson	Albemarle

* Honors; ** High Honors

Albert Ho-Yin Chang	Kowloon, Hong Kong
John McDonald Cross	Marion
Don Anthony DeAngelis	Lincoln, R. I.
*Robert Clifford Dickson	Hagersville, Ontario, Canada
Conrad David Eller	North Wilkesboro
*David Charles Gagnon	Ayden
Larry Stafford Gibson	Sweptownville
Michael Barry Goldfarb	New York, N. Y.
Roy Harrison Harvel	Biscoe
George Rhame Haskell	Laurel Hill
William Thomas Hester	Raleigh
*John Stephen Hines	Spindale
Nicholas Battle Jeffreys	Raleigh
Jerry Lee Jones	North Wilkesboro
Thomas Andrew Jordan	Cedar Falls
*Charles Lester Kale	Mount Holly
**Jon Anthony Koella	Rockford, Tenn.
*Reid Alexander McCarter	Gastonia
Johnny Crawford McCuiston	Burlington
Thomas Register Manning, Jr.	Weldon
Jose Antonio Marti Iturbide	Mexico, D. F.
Larry John Matheson	Asheville
Oey Kiauw Nio	Djakarta, Indonesia
*Pravin Dahyabhai Patel	Ahmedabad, Gujarat, India
Robert Alfred Richie	Marion
†John Richard Sellers	Kannapolis
Henry Hugh Shelton	Speed
*Robert Weathersbee Shinn	Raleigh
John Stephen Singer	New York, N. Y.
*Leonard Alvin Smith, Jr.	Kings Mountain
Thomas Ray Smith	Dunn
Francis McDonald Starke	McLeansville
Floyd Grant Stewart	Charlotte
Roy Clark Thompson	Saluda
**Paul Arthur Tucker, Jr.	Locust
Willis Bryant Weeks	Mount Olive
Theodore Clemens Wohlbruck	Charlotte
Roy Wayne Yount	Conover

Professional Degrees

Civil Engineer, Transportation Option

†Arthur Roberts Dunlop, Jr.	West Chester, Penna.
Lee Ellis King	Charlotte
Edgar Ralph Shuller, Jr.	Fayetteville
James Russell Zook	Lenoir

* Honors; ** High Honors

† In Absentia

Electrical Engineer

Geoffroy Robert deBeaucorps Paris, France
Erling Ove Kruse Oslo, Norway

Metallurgical Engineer

Phillip Marshall Bunting Greensboro

Master's Degrees



MASTER OF APPLIED MATHEMATICS

Charlie Harrison Cooke Lawndale
‡ Joseph Spottswood Crowell Enka
George Marvin Eargle Greensboro
Richard Vernon Fuller Charlotte
Peter Murray Gibson Laurel Hill
Charles Van Buren Peele Goldsboro

MASTER OF EDUCATION

Agricultural Education

Robert Lewis Dunigan Burgaw

Occupational Information and Guidance

Robert Louis Brown Wake Forest
Horace Stanfield High Rocky Mount

MASTER OF ELECTRICAL ENGINEERING

Frederick David Blum Norfolk, Va.
Raymond Lee Christian, Jr. St. Petersburg, Fla.
Maurice Leroy Copeland Graham
William Anderson Hambright, Jr. Graham
Richard Singer Latimer Kingsport, Tenn.
John Henry Turner, Jr. Burlington

MASTER OF EXPERIMENTAL STATISTICS

Kwanchai Assakul Bangkok, Thailand
Marvin McHenry Everett, Jr. Robersonville
‡ Merrill Reinhold Swanson Belvidere, Ill.
James Ray White Knoxville, Tenn.

‡ In Absentia

MASTER OF FORESTRY

Juan Efrain Munoz-Cortes Aguadilla, Puerto Rico

MASTER OF WOOD TECHNOLOGY

†Lilia Gonzales Abis Iloilo, Philippines
Felix Santamaria-Garcia Madrid, Spain

MASTER OF TEXTILE TECHNOLOGY

Preston Calhoun Opt Anderson, S. C.

MASTER OF SCIENCE

Agricultural Economics

Wallace Kenneth Boutwell, Jr. Newton, Miss.
Joseph Daniel Coffey Martinsville, Ind.
Berkwood Malcolm Farmer Ringgold, Va.
Warren Eugene Johnston Winters, Calif.

Animal Science

†Cecil Charlie Brooks Sparta
Peter Frederick Heinstein Baden-Baden, Germany
Donald O'Quinn Morgan Raleigh

Chemical Engineering

†Charles LeRoy Sanderson Louisville, Ky.

Civil Engineering

John Barr Shuler Raleigh
Larry Baxter Smith Marshville

~~Civil Engineering~~

~~John Barr Shuler Raleigh~~
~~Larry Baxter Smith Marshville~~

Crop Science

†Nemesio Arturo Rojo Salta, Argentina

Electrical Engineering

John Welch Adams Atlanta, Ga.
James Reid Hahn, Jr. Miami, Fla.
Joseph Marvin Hunt, III Burlington
Ronald Baxter McGough New Orleans, La.
William Steve Pesto Birmingham, Ala.
Albert Hunter Spinks Rosedale, Miss.
Eugene Joseph Theriot Greensboro
Francis Wilton Woodside Burlington

Engineering Mechanics

John Harold Crews, Jr. Newport News, Va.
James Uriah Crowder, Jr. Asheville

Food Science

Richard Ammon Cowman Brainerd, Minn.

† In Absentia

School of Forestry

Rubini Atmawidjaja	Bogor, Indonesia
Tim Biggerstaff	Bostic
Sadikin Djajapertjunda	Bogor, Indonesia
†Ireneo Ladia Domingo	Piddig, Philippines

Genetics

Richard Ray Frahm	Lyman, Neb.
Alan Baker Humphrey	Tucson, Ariz.
Roger Horace Smith	Yakima, Wash.

Horticultural Science

Thomas Hall	Enfield
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Industrial Engineering

George Eugene Tucker	Raleigh
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Mathematics

†Sandra Dee Addington	Jacksonville, Fla.
Abdelfattah Abdelghaffar El-Sharkawi	Monsah Ashmoun, Menofiah, U.A.R.
Thomas Cooper Hicks Harris	Raleigh
Buddy O'Neill Mann	Princeton, West Va.
Grover Karl Warmbrod	Raleigh

Mechanical Engineering

†Donald Lee Garren	Winston-Salem
Floyd Derwood Jury	Dows, Iowa
†Warren Hoyle Young, Jr.	Burgaw

Mineral Industries

James Anderson Miller	Burnside, Ky.
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Nuclear Engineering

Ho Keun Kim	Seoul, Korea
Maxim Icaak Kovel	Brooklyn, N. Y.

Occupational Information and Guidance

Laura Blanche Gay	Raleigh
Wilford Lloyd Willey	Havre, Mont.

Physics

Michael Paul Charles	Atlanta, Ga.
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Plant Pathology

Robert Douglas Lumsden	Falls Church, Va.
Daniel Morris Porter	Newton Grove

Rural Sociology

William Carter Smith	Raleigh
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Soil Science

Nicholas Berenyi	Raleigh
†Jose Gilardo Marin-Morales	Chinchina, Colombia, S. A.
Robert Preston Patterson	Hickory

School of Textiles

Ashvin Jayantilal Chudgar	Ahmedabad, Gujarat, India
Magdi Mourad El-Aref	Sohag, Egypt

† In Absentia

Dilbag Mohan Gupta Jammu, India
 ‡Dong Wha Kim Seoul, Korea

Zoology

George Andrew Hurst Verona, N. J.
 Seth Lopez Washburn Louisburg

Doctor of Philosophy Degrees

- Dissertation: Soo Young Choi, Chemical Engineering
 An In Situ Activation Tracer Technique
- Dissertation: ‡Abraham Sion David, Agricultural Economics
 An Exploratory Study of Decision Making, Coordination and Control in a Vertically Integrated Broiler Firm
- Dissertation: Philip Duskin Dukes, Plant Pathology
 Inoculum Potential of *Phytophthora parasitica* var. *nicotianae* as Influenced by Certain Soil Factors
- Dissertation: ‡Frederick Everard Malcolm Gillham, Genetics
 The Response of Bollworm, *Heliothis zea* (Boddie), to certain Genotypes of Upland Cotton
- Dissertation: John Valentine Hamme, Mineral Industries
 Phase Relationships in the Uranium-Carbon-Oxygen System
- Dissertation: James William Hendrix, Plant Pathology
 Lipid Nutrition of *Phytophthora parasitica* var. *nicotianae*
- Dissertation: Gerald Howard Katzin, Physics
 Implicit and Formal Uses of a Flat Metric in General Relativity
- Dissertation: ‡Peter James Kendell, Experimental Statistics
 Estimation of the Mean Life of the Exponential Distribution from Grouped Data when the Sample is Censored—with Application to Life-Testing
- Dissertation: ‡William Joseph Lanham, Agricultural Economics
 Area Resource Adjustments for Specified Net Revenue Goals and Levels of Factor Prices on Farms in Economic Area 7, North Carolina
- Dissertation: Seung Gyu Moon, Rural Sociology
 A Study of Factors in the Adjustment of Rural Families in Low-Income Areas
- Dissertation: Gene Namkoong, Genetics
 Comparative Analyses of Introgression in Two Pine Species
- Dissertation: Harry Ashton Owen, Jr., Electrical Engineering
 Analytical and Experimental Studies of the Persistatron Switch

‡ In Absentia

- ‡Clifford Robert Parks, Genetics
Dissertation: Floral Pigmentation Studies in the Genus *Gossypium*
- ‡Ruth Melba Portman, Experimental Statistics
Dissertation: Estimation of Time, Age and Cohort Effects
- William Daniel Stanley, Electrical Engineering
Dissertation: Time Domain Synthesis of RC Delay Networks
- Joe Jackson Stewart, Nuclear Engineering
Dissertation: Solutions of the Gamma-ray Transport Equation Using Tschebyscheff Polynomial Expansions and the Moments Method
- William Lee Tucker, Animal Science
Dissertation: Effective Use of Herdmates in Dairy Sire Evaluation
- ‡Marcos Revilleza Vega, Crop Science
Dissertation: The Influence of Phosphate on the Phytotoxicity of 3-Amino-1, 2, 4- Triazole
- ‡Myron Hwai-Hsi Yang, Nuclear Engineering
Dissertation: Double- P_M Solutions to the Gamma-Ray Transport Equation by the Moments Method
- Amador D'Bayan Yniguez, Experimental Statistics
Dissertation: Some Estimation Problems of a Nonlinear Supply Model Implied by a Minimax Decision Rule

‡ In Absentia

DEGREES CONFERRED

July 19, 1962

August 24, 1962

January 25, 1963

School of Agriculture



BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

Jointly Administered by Schools of Agriculture and Engineering

*Allen Joseph Barwick (July, 1962)	Grifton
Fred Gary Ricks, Jr. (July, 1962)	Conway
Winfred Lee Williams, Jr. (January 1963)	Marshville

BACHELOR OF SCIENCE

Agricultural Economics

Arch Darden Bynum (August, 1962)	Stantonsburg
Donn Wealon Casper (January, 1963)	Raleigh
Robert Franklin Weston (August, 1962)	Williamston
David Francis Worsley (January, 1963)	Oak City

Agricultural Engineering

Elliott Burton Barnes, Jr. (August, 1962)	Corapeake
Juan Jose del-Carmen (August, 1962)	Guatemala, Guatemala, C. A.
Benjamin Maynard Coston (July, 1962)	Hubert
Robert William Jones (July, 1962)	Asheville
Lewis Marshall Williamson (July, 1962)	Chadbourn

Animal Science

Carl Eugene Montgomery (January, 1963)	Semora
James Avery Morris (January, 1963)	Columbia
John Hilton Parker (July, 1962)	Hollister
Admiral Dewey Sauls (January, 1963)	Garner
John Greenville Stone (August, 1962)	Greensboro

* Honors

William Andrew Tadlock, III (January, 1963) Windsor
 William Strother Walden (August, 1962) Taylorsville

Crop Science

Marion Carroll Griffin (August, 1962) Robersonville

Horticultural Science

James Henry Cline, Jr. (January, 1963) Bryson City

Poultry Science

Tracy Lee Holder (January, 1963) Elkin

Windell Lee Talley (January, 1963) Stanfield

Rural Sociology

Joe Harold Duff (January, 1963) Charlottesville, Va.

Paul Marcus Noell (January, 1963) Durham

Chester Lee Stephens, Jr. (August, 1962) Stearns, Ky.

Dewey Franklin Taylor (January, 1963) Pine Level

Willis Ashley West (January, 1963) Aberdeen

John Wesley Williams, III (January, 1963) Weldon

Soil Science

Vernon Lee Strickland (July, 1962) Oxford

Zoology

James Edward Arey (July, 1962) Salisbury

Thomas Edward Crowell (August, 1962) Charlotte

Bruce Lloyd Freeman (January, 1963) North Plainfield, N. J.

Allan Dupree Griggs, II (July, 1962) Wadesboro

Ervin Winfield McIntosh (January, 1963) New Bern

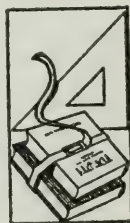
William Grace McNinch, Jr. (January, 1963) Charlotte

*Gary Lionell Mangum (January, 1963) Monroe

Rufus Donald Overby (January, 1963) Moncure

John Daniel Rudder (January, 1963) Burlington

School of Education



BACHELOR OF SCIENCE IN EDUCATION

Agricultural Education

**Thurman Everett Burnette (January, 1963) Oxford

William Earl Ferrell (January, 1963) Wilson

Joe Ecil Griffin, Jr. (January, 1963) Fairmont

Jake Rowe Redmond (January, 1963) Waynesville

George Colon Stewart (January, 1963) Manners

Nurham Osbie Warwick (January, 1963) Clinton

* Honors; ** High Honors

Mathematics Education

Ronnie Ellsworth Calhoun (January, 1963)	Gastonia
Charles Maxwell Deadmon (January, 1963)	Mocksville
David Michael Fowler (January, 1963)	Greensboro
Billy Franklin Gaffney (January, 1963)	Cramerton
Frederick Jennings Gillespie (January, 1963)	Greensboro
Dale Hiram Strawn (January, 1963)	Charlotte

Science Education

*Richard Wayne Bullock (January, 1963)	Zebulon
Dora Ann Clark (January, 1963)	Garner
William Edward Spooner (January, 1963)	Wilmington

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

Edward Neil Bradshaw (January, 1963)	Raleigh
Joseph Hugh Callicutt (January, 1963)	Asheboro
John Boyce Cargill (July, 1962)	Cliffside
Vance Hilton Cordell, Jr. (January, 1963)	Charlotte
James Dickinson Cutter (August, 1962)	Springfield, Mass.
James David Dixon (July, 1962)	Raleigh
Milton Coleman Dixon (January, 1963)	Raleigh
Victor Mattison Floyd (August, 1962)	Fair Bluff
John Allen Gill (August, 1962)	Clearfield, Penna.
*Garland Kermitt Hilliard, Jr. (January, 1963)	Raleigh
Henry Dillard Hinson (January, 1963)	Rocky Mount
John Hall Lambert (January, 1963)	Brevard
Ervin Randolph Millwood (January, 1963)	Durham
Vinson Aster Sechrest (July, 1962)	Statesville
Robert Glenn Tice, Jr. (January, 1963)	Wadesboro
Richard Lyon Tucker (January, 1963)	Greensboro
Edgar Evans Wright, Jr. (August, 1962)	Gastonia

BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION

James Lee Graham (July, 1962)	Yadkinville
Reuben Russell Moore (July, 1962)	Roxboro
Cullen Blackmond Price, Jr. (July, 1962)	Mount Olive
James Thomas Smith (July, 1962)	Kings Mountain
George Lyles Thomason (July, 1962)	Raleigh
Marvin Glenn Klutz (August, 1962)	Hickory

BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION

Robert James Anthony (January, 1963)	Steubenville, Ohio
Alonzo Merrick Barnes, Jr. (January, 1963)	Philadelphia, Penna.
Frederick Eugene Bernhard (January, 1963)	Alexandria, Va.
William Thomas Biggerstaff (August, 1962)	Shelby
Neil Henry Clark, Jr. (January, 1963)	Chapel Hill
Paul Frederick Jaeger (January, 1963)	Reading, Penna.
Tapley Orman Johnson, Jr. (January 1963)	Wake Forest
Walter John Kudryan (January 1963)	McKees Rocks, Penna.
Denny Ray Lutz (January, 1963)	Charlestown, Ind.
Russell Gene Marvel (January, 1963)	Gary, Ind.
Zoble Rice Morris (January, 1963)	Ahoskie
Terrance Graham Odom (January, 1963)	Raleigh
Younger Fletcher Snead, Jr. (January, 1963)	Raeford

• Honors

John Edward Stanton (August, 1962)	Carnegie, Penna.
Leonard Pendleton Taylor, Jr. (August, 1962)	Vanceboro
John Robert Thompson (January, 1963)	Raleigh
Robert Neilson Weatherly (January, 1963)	Hamlet

BACHELOR OF SCIENCE IN SCIENCE EDUCATION

Forrest Ronald Ross (August, 1962)	Marion
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School of Engineering



BACHELOR OF SCIENCE IN CERAMIC ENGINEERING

George Cleveland Mitchell, III (August, 1962)	Dunn
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BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Robert Paul Barbee (January, 1963)	Oakboro
Halit Zafer Dokuzoguz (January, 1963)	Ankara, Turkey
Blair Campbel Ellis (January, 1963)	Raleigh
James Justice McCree (January, 1963)	Holly Ridge
*Ronald Owen Pennsyle (January, 1963)	Winston-Salem
Harold David Stroupe (August, 1962)	Gastonia
Charles Edward Wilhalf, III (August, 1962)	Rocky Mount

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Billy Joe Batchelor (July, 1962)	Morrisville
David Douglas Currin (July, 1962)	Oxford
Paul Henry Daniels (July, 1962)	New Bern
Jack Alberto Grimberg-Possin (July, 1962)	Bogota, Colombia
Donald Crawford Kennedy (January, 1963)	New Bern
William Edward Knox (July, 1962)	Winston-Salem
Lawrence Glenn McDougal (January, 1963)	Spindale
Edice Carlton Melvin, Jr. (August, 1962)	Raleigh
Thomas Wiley O'Bryant (August, 1962)	Reidsville
Duane Richard Smith (January, 1963)	Elmira, N. Y.
William Frederick Stokes (January, 1963)	Greenville
Jimmie Boyden Thomas (July, 1962)	Salisbury
Frank Wayne Wagoner (July, 1962)	Elon College
James Waller (July, 1962)	Maple Hill
Edward Lafayette Woods (August, 1962)	Charlotte
*Gary Franklin Workman (January, 1963)	High Point

* Honors

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION

Gaither Glenn Grigg, Jr. (January, 1963)	Kings Mountain
William Don Malpass (January, 1963)	Virginia Beach, Va.
John Edgar Starnes (August, 1962)	Raleigh
James David Summers, Jr. (July, 1962)	Greensboro

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

*Richard Tobias Baer (January, 1963)	Toms River, N. J.
John Samuel Bell, Jr. (January, 1963)	Charlotte
William Maurice Bell, III (August, 1962)	Charlotte
*Ralph Charles Bowden (July, 1962)	Wading River, N. Y.
William Ray Carriker (January, 1963)	Charlotte
Marcel Louis Duplat (January, 1963)	Tourcoing, France
Richard Maurice Earnhardt (July, 1962)	Charlotte
Daniel Stephen Garriss (August, 1962)	Lillington
*Olin S. Giles, Jr. (July, 1962)	Charlotte
Malcolm Alston Green (January, 1963)	Durham
Fereydoun Jalali (January, 1963)	Teheran, Iran
Jack McPhail Kirby (January, 1963)	Canton
Erling Ove Kruse (August, 1962)	Oslo, Norway
Jerry Alan Pope (January, 1963)	Dunn
Marion Odell Rhue (August, 1962)	Swansboro
Charles Holman Smith (July, 1962)	Greensboro
John Boyce Styron (January, 1963)	Stacey

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS

James Cashetta (July, 1962)	Brooklyn, N. Y.
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BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT

James William Clontz (January, 1963)	Lenoir
Charles Sidney Heilig, Jr. (August, 1962)	Salisbury
Jerry Lee Hodges (January, 1963)	Lexington
Frederic George Wieland, III (January, 1963)	Statesville
Luther Erwin Williams (January, 1963)	Valdese

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

Charles Richard Reid (January, 1963)	Charlotte
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BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Hernando Casas (July, 1962)	Bogota, Colombia
George Heyward Dunlap, Jr. (January, 1963)	Raleigh
Alton Terrell Harris (January, 1963)	Laurinburg
George W. Harrison, Jr. (July, 1962)	Henderson
*Amos Calvin Harvey (January, 1963)	Wilmington, Ill.
Ergin Uskup (January, 1963)	Istanbul, Turkey

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Andrew Albert Adams (August, 1962)	Charlotte
Frank Minges Cothran (July, 1962)	Salisbury
Richard Salisbury Fowler (January, 1963)	Durham

• Honors

George Lance Gillespie (January, 1963)	Sylva
John Bunyan Green (July, 1962)	Midland
Hossein Gholi Hoomani (August, 1962)	Teheran, Iran
Edward Wayne Huggins (August, 1962)	Council
Jerry Lewis Humble (July, 1962)	Jamestown
James Edward Ingram (August, 1962)	Kernersville
Fred Arnold Jenkins (August, 1962)	Charlotte
Maurice Daniel McIntosh (July, 1962)	Charlotte
William Ernest Moore (August, 1962)	Acme
Robert Harris Petty (January, 1963)	Moncure
Samuel Fintz Savariego (January, 1963)	Dallas, Texas
John Benjamin Shore (January, 1963)	Winston-Salem
Charles Douglas Simpson (July, 1962)	Charlotte
Gerald Anderson Stein (July, 1962)	Rocky Mount
**Robert Carlton Steljes (July, 1962)	Wilmington
David Walter Thomas, Jr. (August, 1962)	Asheville
David Patrick Whitesides (July, 1962)	Gastonia
Robert Brooks Wicker, III (August, 1962)	Sanford

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION

**Jerry Michael Allen (July, 1962)	Forest City
William Watkins Buchanan (July, 1962)	Roxboro
Walter Lee Gilbert, Jr. (July, 1962)	Forest City
Lynn Ernest Henshaw (August, 1962)	Waynesville
Jackie Burris Johnson (January, 1962)	Draper
Godwin Cotton Rogerson (July, 1962)	Ahoskie

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Richard Hunt Burgess (January, 1963)	Euclid, Ohio
Robert Eugene Burgess (January, 1963)	Dumont, N. J.
Devendra Nath (July, 1962)	Cuttack, India
Jack Preston Overman (July, 1962)	Edenton
Joseph Richard Sagmuller (July, 1962)	Raleigh
Julius Augustus Shanklin, Jr. (July, 1962)	Raleigh
Francis Beasley Taylor (January, 1963)	Kinston

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

William Henry Hulbert (January, 1963)	Sanford
James Thomas Lowder (July, 1962)	Fayetteville
Henry Van Miller (July, 1962)	Winston-Salem
Joseph Irvin Mills, Jr. (January, 1963)	Mooresville
Roger Alan Morrison (August, 1962)	Charlotte

**** High Honors**

School of Forestry



BACHELOR OF SCIENCE IN FOREST MANAGEMENT

Roy Osborne Brogden, Jr. (January, 1963)	Garner
Robert Marshall Burgess (August, 1962)	Burlington
James Theron Byrd, Jr. (July, 1962)	Raleigh
James Daniel Caldwell (January, 1963)	Clyde
James Lawson Chandler, Jr. (January, 1963)	Ruffin
Buddy Wiley Connor (August, 1962)	Kings Mountain
James Roy Covington (January, 1963)	Lumberton
William Hoover Goodman (January, 1963)	Raleigh
Donald Ellsworth Hatch (January, 1963)	Petersburg, Va.
Coke Alexander Hayes, Jr. (January, 1963)	Ahoskie
Joseph Tharpe Johnston (January, 1963)	Littleton
*Bohun Baker Kinloch (July, 1962)	Charleston, S. C.
Peter David Leavitt (July, 1962)	Corinth, Miss.
Richard Bernard Lingman (January, 1963)	New Bern
Edgar LeRoy Little, Jr. (January, 1963)	Durham
*Thomas Miller (August, 1962)	Asheville
*James Sherwin Odum (January, 1963)	Swansboro
James Arthur Robbins (August, 1962)	Supply
Arthur Whitt Stallings (January, 1963)	Raleigh
Donald Henry Weiller (January, 1963)	Raleigh

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY

Jack London Hawkins, Jr. (July, 1962)	Jacksonville
Carl Fred Mills (July, 1962)	Chinquapin

* Honors; ** High Honors

School of Physical Sciences and Applied Mathematics



BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

Evelyn Dee Clark Blankford (August, 1962)	Beulaville
Dianne Massey Diano (August, 1962)	Tarboro
Joseph Sheridan Graybeal (January, 1963)	Creston
James Charles Harrelson (January, 1963)	Asheboro
*James Calvin Hooks (August, 1962)	Wadesboro
**Clinton Leroy Jefferies, Jr. (July, 1962)	Raleigh
James David Lore (August, 1962)	Gastonia
Wendell Allen Malpass (August, 1962)	Raleigh
Alvin Sutton Metts (July, 1962)	Trenton
Robert Edwin Nelson (August, 1962)	Baltimore, Md.
Reid Barnes Patterson (August, 1962)	Salisbury
*Lynn McIver Perry, Jr. (August, 1962)	Sanford
*John Rutledge Rainey (August, 1962)	Kannapolis
*William Neal Reynolds, II (January, 1963)	Winston-Salem
*Stephen Warner Sherman (January, 1963)	Jacksonville
*Larry Eugene Spangler (July, 1962)	Shelby
John Edgar Upchurch (July, 1962)	Raleigh
Thomas Phillips Vann (January, 1963)	Southern Pines
John Wilbert Watkins, Jr. (August, 1962)	Southern Pines
**Robert Edward Williams, Jr. (July, 1962)	Clinton

BACHELOR OF SCIENCE IN CHEMISTRY

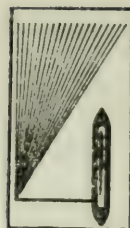
Paul Leland Bailey, Jr. (August, 1962)	Lynchburg, Va.
Carl Newton Bean, Jr. (July, 1962)	Asheville
Henry Madison Davis, Jr. (July, 1962)	Hendersonville
Charles Walker (January, 1963)	Mount Olive

BACHELOR OF SCIENCE IN PHYSICS

**Sam Glenn Beard, Jr. (January, 1963)	Pittsboro
Robert Haygood Lasseter (January, 1963)	Miami, Fla.
David Alexander Purcell, Jr. (July, 1962)	Fieldale, Va.
**David Wood Swain (January, 1963)	Raleigh

* Honors; ** High Honors

School of Textiles



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

• Roberta Marie Tremain (January, 1963) Hespeler, Ontario, Canada

BACHELOR OF SCIENCE IN TEXTILE TECHNOLOGY

Benjamin Creech Arthur (August, 1962)	La Grange
Ronald Stephen Bard (January, 1963)	Asheville
• Ping-Ching Chao (July, 1962)	Taiwan, China
Charles Algernon Davis, Jr. (August, 1962)	Draper
James Ashton Dunn (August, 1962)	Efland
Wayne Wright Edwards (January, 1963)	Red Springs
Phillip Ray Graham (July, 1962)	Yadkinville
James Lanier Griffin, III (January, 1963)	Greenville, S. C.
Alfred Garland Grizzard, Jr. (July, 1962)	Scotland Neck
•• Harold Richard Hunnicutt, Jr. (January, 1963)	Kings Mountain
Charles Richmond Ingold (August, 1962)	Winston-Salem
• Safei-Eldin Abbass El-Kharadly (August, 1962)	Alexandria, Egypt
Forrest K. McIntosh (August, 1962)	Mount Holly
John Austin Manning, Jr. (January, 1963)	Raleigh
Joseph Kent Morton (July, 1962)	Kingsport, Tenn.
Necati Ozgur (January, 1963)	Nazilli, Turkey
James Russell Putnam (August, 1962)	Cobleskill, N. Y.
William Thomas Short (January, 1963)	Henderson
Jerry Lee Setzer (August, 1962)	Mooreville
Robert Lee Stallings (January, 1963)	Gibsonville
Donald Michael Studley (January, 1963)	Woodmere, N. Y.
Kenneth Walter Suessmann (August, 1962)	Massapequa Park, N. Y.

Professional Degrees

Civil Engineer, Transportation Option

Boyd Curtis Steed, Jr. (January, 1963) Atlanta, Ga.

Electrical Engineer

Myron Keith Cox (January, 1963) Akron, Ohio

• Honors; •• High Honors

Master's Degrees



MASTER OF AGRICULTURAL EDUCATION

Robert Bruce Whitely (July, 1962) Lenoir

MASTER OF AGRICULTURE

Creighton Lee Gupton (January, 1963) Castalia
Cleveland Allen Partin (January, 1963) Siler City

MASTER OF EXPERIMENTAL STATISTICS

Thomas Peter Bogyo (January, 1963) Pullman, Wash.
Pedro Raul Onoro-Cerra (January, 1963) Baranóa, Colombia
Abdus Samad (July 1962) Dacca, East Pakistan

MASTER OF FORESTRY

Michael Glen Timko (January, 1963) Harrington, Del.
Martin Torrico Torrico (January, 1963) Cordoba, Spain

MASTER OF INDUSTRIAL ARTS

Maynard Francis Adams (July, 1962) Raleigh
Gene Holton Anthony (July, 1962) Knightdale
Frank Alderman Crawford (August, 1962) Raleigh
Harvel Weldon Lavender (August, 1962) Valliant, Okla.
Thomas Darrell Spencer (August, 1962) Raleigh
John Junious Stewart (July, 1962) Woodbury, Ga.
Benjamin Davis Webb (August, 1962) Roanoke Rapids

MASTER OF OCCUPATIONAL INFORMATION AND GUIDANCE

Robert Earl Morton (August, 1962) Raleigh

MASTER OF EDUCATION

Industrial Arts

William Edward Parkerson (January, 1963) Greensboro
Occupational Information and Guidance
Swarn Kanta Dahiya (January, 1963) Punjab, India

MASTER OF SCIENCE

Agricultural Economics

Bobby Ross Eddleman (August, 1962) Claude, Tex.
William John Jasper (January, 1963) Burgaw
Clair Edward Morris, Jr. (January, 1963) Columbia

John Wayne Nixon (August, 1962) _____ Raleigh
 Arnold Victor Kroll (January, 1963) _____ Calgary, Alberta, Canada
 Robert Malcolm Ray (August, 1962) _____ Asheville

Agricultural Engineering

John Gilbert Alphin (July, 1962) _____ Mount Olive
 Richard Conard Fluck (July, 1962) _____ Salisbury
 Allen Ray Overman (January, 1963) _____ Pikeville

Animal Science

Thomas Aaron Taylor (January, 1963) _____ Landis
 William Augustus Wilder, Jr. (January, 1963) _____ Knightdale

Botany and Bacteriology

Vincent Jerome Bellis, Jr. (January, 1963) _____ Black Mountain
 Ruby Lee Brown (August, 1962) _____ Robbins
 Robert Cree Eisenberg (August, 1962) _____ Oregon, Mo.
 David Heuston Hubbell (January, 1963) _____ Raleigh

Chemical Engineering

Fredrik Eugene Faulkner (January, 1963) _____ Asheville
 James Allen Merricks (August, 1962) _____ Reidsville

Chemistry

Albert Kamel Hanna Athnasios (August, 1962) _____ Cairo, Egypt, U.A.R.
 Gus Martin (August, 1962) _____ New York, N. Y.

Civil Engineering

John Talley Cunningham, IV (August, 1962) _____ Clarksville, Tenn.
 Clarence Boylan Davis (July, 1962) _____ Wilmington
 Benny Wallace Helton (January, 1963) _____ Hendersonville
 David Humphreys Moreau (January, 1963) _____ Natchez, Miss.

Crop Science

Marvin Kenneth Aycock, Jr. (January, 1963) _____ Warrenton
 Hsiung Wan (August, 1962) _____ Taipei, Taiwan

Electrical Engineering

John William Adams (January, 1963) _____ Macon, Ga.
 Henry Alfred Brown (January, 1963) _____ Apex
 Faysal Said Keblawi (January, 1963) _____ Acre, Palestine
 Smith Albert Rhodes (August, 1962) _____ Durham
 June Singletary, Jr. (July, 1962) _____ Bladenboro
 Andrew Brockman Varner, Jr. (January, 1963) _____ Winston-Salem

Engineering Mechanics

Joseph Patrick Archie, Jr. (August, 1962) _____ Kinston
 Harold Gene Bush (January, 1963) _____ Albemarle

Experimental Statistics

Helen Tang Bhattacharyya (January, 1963) _____ Raleigh
 Bruce Owen Johnston (July, 1962) _____ Winnipeg, Manitoba, Canada
 Arthur Ralph Verbeck (January, 1963) _____ Raleigh

Forestry

Wei-Min Chang (January, 1963) _____ Taichung, Taiwan
 Parviz Mehdizadeh Tabrizi (January, 1963) _____ Teheran, Iran
 Abder Rahim Abdul Talli (July, 1962) _____ Zerka, Jordan
 Ray Judson Varnell (January, 1963) _____ Oklahoma City, Okla.

Genetics

M. Thompson Conkle (August, 1962) Canton, Ohio
Jose Bernardo Goldenberg (January, 1963) Buenos Aires, Argentina
Major Mereland Goodman (January, 1963) Des Moines, Iowa

Industrial Arts

Samuel Dean Morgan (July, 1962) Marion

Industrial Engineering

Biman Das (August, 1962) Calcutta, India
Robert James Jaycox (January, 1963) Rochester, Mich.
Leonard Roy Lamberson (January, 1963) Morley, Mich.
Gerald Thomas Meier (January, 1963) Flint, Mich.

Mathematics

Joel Vincent Brawley, Jr. (August, 1962) Mooresville
Robert Dabney Davis (January, 1963) Winston-Salem
Harrison Alexander Giles, Jr. (July, 1962) Roanoke Rapids
Paul Froneberger Long (January, 1963) Bessemer City
Paul Edward Niedercorn (July, 1962) Pearl River, N. Y.
Keppel Duane Wait (August, 1962) Asheville

Mechanical Engineering

Charles Luh-Sun Farn (August, 1962) Checkiang, China
Richard Holbrook (January, 1963) Detroit, Mich.
Bobby Gray Kiger (January, 1963) Winston-Salem
Douglas Yates Perry (July, 1962) Zebulon
Melvin Kendrick Richardson (July, 1962) Gastonia
David Warren Stallings (January, 1963) Thomasville

Mineral Industries

Chandrakant Prabhudas Doshi (January, 1963) Calcutta, India
Povindar Kumar Mehta (August, 1962) Nurpur, Panjab, India
Wesley Stewart Perry (January, 1963) Raleigh

Nuclear Engineering

Bryan Lawrence Button (January, 1963) Wolverhampton, England
James Hart Higman (August, 1962) Cortez, Colo.
Richard Frederick Smale, III (January, 1963) Pottstown, Penna.
Mohamed Gamal Zaalouk (July, 1962) Cairo, Egypt

Occupational Information and Guidance

Fitzhugh Lee Barker, Jr. (January, 1963) West Jefferson
Joyce Anne Causey (July, 1962) Tarboro
Roger Martin McGirt, Jr. (August, 1962) Lenoir

Physics

George Lansing Blackshaw (August, 1962) Raleigh
Roy Lunsford Champion, Jr. (July, 1962) Wilson
George Irvan Coats (August, 1962) Raleigh
Joze Dolnicar (July, 1962) Ljubljana, Yugoslavia
Harold Eugene Eskridge (January, 1963) Shelby
Billy Joe Henderson (July, 1962) Texarkana, Tex.
John Walter McRary, III (January, 1963) Asheville
Robert Linwood Olson (January, 1963) Charlotte
Charles Edward Siewert (July, 1962) Louisville, Ky.

Plant Pathology

Joseph Allen Fox (January, 1963) Pulaski, Miss.

Psychology

Teresita Sison Ela (January, 1963) Manila, Philippine Islands
Ralph Joseph Strauss (July, 1962) Brooklyn, N. Y.

Rural Sociology

Eva Gerstel (January, 1963) Raleigh

Soil Science

Paul Ping-Yiu Kiang (January, 1963) Wanchai, Hong Kong
Hector Manuel Lugo (January, 1963) Mayaguez, Puerto Rico

Textile Technology

Louie Thomas Lassiter (January, 1963) Raleigh
Surinder Kumar Sabhikhi (January, 1963) Raleigh
Thomas John Schofield (January, 1963) Lima, Peru

Zoology

Nathan Doyle Greene (August, 1962) Callant, Ala.
Paul Landis Keyes (January, 1963) Hanover, Va.
Ray Roberts Lassiter (August, 1962) Ahoskie
Wallace Lee Trent (August, 1962) Kernersville

Doctor of Philosophy Degrees

- Dissertation: Charles James Bridgman, Nuclear Engineering, (January, 1963)
An Analytical Solution of the Neutron Moments Equations
- Dissertation: Billy Burl Brodie, Plant Pathology, (July, 1962)
Pathogenicity of Certain Parasitic Nematodes on Cotton Seedlings
and their Relationship to Post-Emergence Damping-off Caused by
Rhizoctonia solani Kuhn and *Pythium debaryanum* Hesse
- Dissertation: James Walker Brown, Jr., Food Science, (January, 1963)
An Immunological Study of the Effects of Heat on Milk Proteins
- Dissertation: Norman Bush, Experimental Statistics, (July, 1962)
Estimating Variance Components in a Multi-way Classification
- Dissertation: Luis Humberto Camacho, Genetics, (January, 1963)
Quantitative Genetic Analysis of Physical Components of Yield in
Corn
- Disserattion: Mrinal Kanti Chakraborty, Crop Science, (August, 1962)
The Chemistry of Tobacco Trichomes
- Dissertation: Basilio Narvaes de los Reyes, Agricultural Economics, (July, 1962)
Resource Productivity and Adjustment Possibilities on Lowland
Rice Farms in Selected Areas of the Philippines
- Dissertation: Paul Wesley Dickson, Jr., Physics, (August, 1962)
A Study of the Variational Principles of Nuclear Reactor Physics
- Dissertation: Charles William Dill, Food Science, (January, 1963)
Effects of Direct Steam-injection Heating on Serum Protein Denaturation,
Cooked Flavor Development, and Related Changes in Milk

- Dissertation: Joseph Clyde Dowdle, Electrical Engineering, (January, 1963)
Determination of the Dielectric Constant of Solid Dielectrics through an Application of Pearce's Equation
- Dissertation: Walter Donald Duckworth, Entomology, (August, 1962)
The Genera of Western Hemisphere Stenomidae (Lepidoptera)
- Dissertation: Samuel Turner Goforth, Jr., Chemical Engineering, (January, 1963)
Analysis and Experimental Verification of a Probe Method for the Conductivity of Small Specimens
- Dissertation: James Floyd Goggans, Forestry, (August, 1962)
The Correlation, Variation, and Inheritance of Wood Properties in Loblolly Pine (*Pinus taeda* L.)
- Dissertation: Wiley Hix Henson, Jr., Agricultural Engineering, (July, 1962)
Certain Dielectric Properties of Intact Tobacco Leaves
- Dissertation: Horace Gill Hilton, Soil Science, (January, 1963)
Some Interrelationships of Clay Mineralogy, Soil Strength, and Plant Root Growth
- Dissertation: David Charles Hurst, Experimental Statistics, (July, 1962)
Modifications of Response Surface Techniques for Biological Use
- Dissertation: Joseph Thomas Judd, Animal Science, (January, 1963)
The Effect of Manganese on Systems Involving Ferritin Iron Reduction by Electron Transfer from Xanthine Oxidase Catalyzed Oxidation
- Dissertation: John Alfred Koburger, Food Science, (August, 1962)
The Identification of Growth Stimulants for the Lactic Streptococci
- Dissertation: Chreston Furman Martin, Physics, (January, 1963)
Spaces in General Relativity Admitting Geodesic Correspondence
- Dissertation: Gene Arthur Mathia, Agricultural Economics, (August, 1962)
Selection of the Optimum Number, Size and Location of Processing Plants: An Application to the Sweet Potato Industry of Eastern North Carolina
- Dissertation: Marvin Kent Moss, Physics, (August, 1962)
Conservation Laws of the Theory of General Relativity
- Dissertation: Donald Eugene Otterby, Animal Science, (January, 1963)
Abomasal Hydrolysis of Milk Fat by Pregastric Esterase in the Calf
- Dissertation: John Irvine Paulk, Nuclear Engineering, (August, 1962)
The Diffusion Parameters of Heavy and Light Water Mixtures at Different Temperatures by Pulsed Neutron Methods
- Dissertation: Ralph James Peeler, Jr., Agricultural Economics, (January, 1963)
Effects of Assembly and In-Plant Cost on the Optimum Number, Location, and Size of Egg Grading and Packing Plants in North Carolina
- Dissertation: LeRoy Charles Saylor, Genetics, (August, 1962)
Chromosome Behavior and Morphology in Species and Interspecific Hybrids of *Pinus*
- Dissertation: Wilfred Martin Schutz, Genetics, (August, 1962)
The Effect of Field Blocking on Gain from Selection
- Dissertation: Donald Turner Searls, Experimental Statistics, (January, 1963)
On the "Large" Observation Problem

- Dissertation:** John Ike Sewell, Agricultural Engineering, (August, 1962)
Moisture Flow Patterns in Irrigation Determined by Approximate Methods
- Dissertation:** John Millard Soileau, Soil Science, (August, 1962)
Evaluation of Free Iron Oxide Distribution and Source and Significance of Red and Yellow Coloration in Certain Well-Drained Coastal Plain Soils
- Dissertation:** Leonard Leroy Slyter, Animal Science, (January, 1963)
Sodium and Potassium of the Rumen as Related to Volatile Fatty Acid Metabolism
- Dissertation:** Darrell Robert Van Campen, Animal Science, (August, 1962)
Investigation of an Acetate-Activating System from Rumen Microorganisms
- Dissertation:** Charles Henry Voss, Jr., Electrical Engineering, (January, 1963)
A New High-Speed Method of Testing Capacitors
- Dissertation:** Frederick Robert Westfall, Physics, (August, 1962)
Measurements of Natural Uranium-Heavy Water Lattices by the Pulsed Neutron Technique
- Dissertation:** Shung-Jun Yang, Crop Science, (July, 1962)
Numerical Chromosome Instability in *Nicotiana* Hybrids: Intra- and Interplant Variation

Recipients of Honorary Degrees

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

GEORGE McMILLAN DARROW

We greet you as one who has turned the methods and resources of science to the benefit of mankind. Your dedication of your life to the improvement of the breeding of small fruits is a part of the larger effort in modern agriculture to increase the quantity of food available to the human race while improving its quality in nutrients and variety. Efforts such as yours and your co-workers are reflected directly in the development and introduction of new strains of small fruits which not only support an important industry but relate directly to the improvement of the lives of all of us. Not only is the nation in your debt but particularly are we in North Carolina for your inauguration of scientific work in the improvement of strawberry and blueberry strains in our own state. Perhaps more important than any of these, however, is the wealth of testimony to the inspiration you have given and still give to your colleagues and the encouragement of the younger men who will follow you.

In recognition of your many services, North Carolina State is proud to add to the many honors you have already received by conferring upon you the degree of Doctor of Science, *honoris causa*.

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

TERRY SANFORD

Early in a life illuminated by the desire and the capacity for the public service, you grasped the essential truth that education is the key to the progress of your state and region. During the first biennium of your governorship, your leadership moved the public schools forward to a degree equaled by no governor since Charles Brantley Aycock, nearly two generations ago. For them you charted the path of progress and provided a fiscal structure which should serve the state for years to come. No less during the latter part of your administration has education felt the strength of your support. Turning your attention to the problems of education beyond the high school, you have forwarded the idea of a system of higher education which promises both breadth and excellence. Few men have done so much to guarantee that North Carolina maintains her illustrious place in the main stream of the nation's history. The state will be grateful to you for generations to come.

Terry Sanford, for your devotion to education and for your exemplary performance of your demanding duties, I confer upon you the degree of Doctor of Humanities, *honoris causa*.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

ELI STERNBERG

As a son of North Carolina State you have brought her honor throughout your professional life. Building upon the work which you did here and in your other studies you have achieved a position of eminence in the fields of applied mathematics which few can match. Your scholarship in the arcane and difficult fields of elasticity, viscoelasticity and thermoelasticity has facilitated the work of other scientists throughout the world. Creativity such as yours contributes both immediately and ultimately to the scientific and technological progress upon which our civilization depends.

Because your work exemplifies the highest traditions of selfless scholarship, North Carolina State is glad to recall one of her own and confer upon him yet another degree—Doctor of Science, *honoris causa*.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

BERTRAM WHITTIER WELLS

Throughout a long and busy life as a botanist you have carried forward the highest ideals of our profession. Through your teaching and research and administration of your department you have not only directed but led by example the development of an important science basic to the university concept. The warmth of your personality and the breadth of your interests have made for you enduring friendships throughout the world. Because you realized that scholarship cannot remain cloistered when its essential interests are threatened, you led the fight to prohibit political interference in the curriculum and thereby helped to establish an essential element of academic freedom—the right and the duty of the scholar to lead the community to a reliance on information painstakingly acquired and honestly presented.

It is now more than four decades since you came to us as professor of Botany and Head of that department. For such a span of devoted service there can be no adequate return except the honor in which we hold you and our gratitude for your many works. It is purely as a symbol of these things that we confer upon you the degree of Doctor of Science, *honoris causa*.

Awards for Achievement

1962-1963

SCHOOL OF AGRICULTURE

Agricultural Economics:

Wall Street Journal Achievement Award: Robert Charles Cochran, Robersonville.

Agricultural Engineering:

American Society of Agricultural Engineers, Student Honor Award: Larry Franklin Stikeleather, Stony Point.

Senior Honor Award in Agricultural Engineering Technology: Luther William Hedspeth, Jr., Conway.

Agronomy:

Senior Highest Scholastic Average in Crop Science and Soil Science: Roy Walton Mozingo, Kenly (Crop Science).

American Society of Agronomy Award, Most Outstanding Senior: Charles David Raper, Jr., Whiteville (Soil Science).

Agronomy Club Leadership Award: Henry Thomas Brown, Jr., Ahoskie (Crop Science).

Animal Science:

The Fred M. Haig Trophy: James Wall Davis, Winston-Salem.

Food Science:

The Virginia Dare Award: Robert Jackson Drye, Jr., Charlotte.

Gamma Sigma Delta:

Sophomore Certificate: Donald Bruce Zobel, Raleigh (School of Forestry).

Senior Certificate: Charles Everett Dunning, Woodland (School of Forestry).

Horticultural Science:

Outstanding Senior Award: George Sidney Wellons, Wilson.

Burpee Award: John Quincy Shaw, Jr., Durham.

SCHOOL OF DESIGN

American Institute of Architects School Medal: Edgar Roger Calloway, III Kingsport, Tennessee.

American Institute of Architects Book Award: Gerrard Edmond Raymond, New Orleans, Louisiana.

Alpha Rho Chi Medal: Gunther Johann Phillip Reuer, Berlin Dahlem, Germany.

North Carolina Chapter of the American Institute of Architects Book Awards: Kenneth Lloyd Haggard, II. San Antonio, Texas and Woodrow Wilson Jones, Jr., Rutherfordton.

General Motors Corporation Book Awards: Calvin Collins Pippin, Smithfield, and Louie Willard Watkins, Jr., Wilmington.

SCHOOL OF EDUCATION

Agricultural Education Club Award, most outstanding senior: Hugh Alexander Clark, Elizabethtown.

Kappa Phi Kappa Scholarship Medal: Hugh Alexander Clark, Elizabethtown.

SCHOOL OF ENGINEERING

The Hamilton Watch Award: David Tilden Putnam, Shelby (Senior Mechanical).

The School of Engineering Outstanding Senior Award: William Marcus Deal, Lenoir (Senior Industrial)

Ceramic Engineering: Moland-Drysdale Corporation Freshman Scholarship Cup.

Douglas L. Fowler, Durham (Freshman Ceramic); J. C. Steele Upperclassman Scholarship, Gerald T. Lester, Kinston (Sophomore Ceramic).

Chemical Engineering: American Institute of Chemical Engineers Scholarship Award, William Ernest Lewis, Greenville (Junior Chemical).

Civil Engineering: Associated General Contractors' Award to Outstanding Senior in Construction Option, Charles Edward Jones, Lenoir (Senior Civil Engineering, Construction Option); North Carolina Section, American Society of Civil Engineers' Awards, William Moncier Cox, New Bern (Senior Civil Engineering); Lew Gary Clontz, Hudson (Senior Civil Engineering); James Maurice Lynch, Sanford (Senior Civil Engineering); Clay Edward Sams, Dillard, Georgia (Senior Civil Engineering).

Electrical Engineering: Institute of Radio Engineers Awards—Junior Year Award, Jacob Aster Davis, Raleigh; Senior Year Award, Tommy Goode Sharpe, Statesville.

Industrial Engineering: Outstanding Sophomore in Industrial Engineering, Joseph Coy Eller, Purlear; Award to Outstanding Senior in Industrial Engineering—Awarded by Eastern North Carolina Chapter of American Institute of Industrial Engineering, William Marcus Deal, Lenoir; Outstanding Senior in Furniture Manufacturing and Management—Awarded by the Furniture Club—Kermit Leslie Young, Jr., Norwood.

Mechanical Engineering: American Institute of Aeronautics and Astronautics Scholarship Award, Clifton Benedict McFarland, Jr., Raleigh—Pi Tau Sigma, Donald L. Coleman, Hurdle Mills.

SCHOOL OF FORESTRY

Xi Sigma Pi Senior Award: Bohun Baker Kinloch, Jr., Charleston, South Carolina.

Xi Sigma Pi Freshman Award: Jimmy Douglas Gregory, Angier.

Continental Can Competitive Scholarship Awards: Charles Livious Lennon, Bladenboro; Gregory Hudson Winston, Bumpass, Virginia.

Homelite Honor Awards: Edward Carlyle Franklin, Richmond, Virginia; James Lewis Hamrick, III, Richmond, Virginia; Donald Bruce Zobel, Raleigh.

Biltmore Scholarship Awards: Alan John Aitken, Bovina Center, New York; George William Baldwin, Vass; Warren Giles Boyette, Clayton; Burton Rubush Floyd, Jr., Buena Vista, Virginia; James Edward McElroy, Morehead City.

Slocum Scholarship Awards: James Chandler Eakes, Jr., Sanford; Lynn Keith Jackson, Sardis, Ohio.

Alpha Zeta Scholarship Cup Award: Jimmy Douglas Gregory, Angier.

SCHOOL OF GENERAL STUDIES

B. F. Brown Award for Excellence in the Liberal Arts: Charles William Bostian, Charlotte.

SCHOOL OF PHYSICAL SCIENCES AND APPLIED MATHEMATICS

The Chemical Rubber Company Achievement Award for the Outstanding Student: Freshman Mathematics, John Charles Pratt, Goldsboro; Freshman Chemistry, Robert Malcolm Swindell, Raleigh; Sophomore Physics, Edwin Lane Fassanella, Cary.

Award to top ranking State College student in the National Putman Competition: Harvey Thomas Banks, Newton.

Award to top ranking graduate student in the written qualifying examination for candidates for the degree of Doctor of Philosophy in Applied Mathematics: Joel Vincent Brawley, Mooresville.

SCHOOL OF TEXTILES

American Association for Textile Technology Award: Paul Arthur Tucker, Jr., Locust.

American Association of Textile Chemists and Colorists Award: Harry Oscar DeLoach, Asheville.

Delta Kappa Phi Award: Larry Stuart Jenkins, Raleigh.

Phi Psi Award: Reid Alexander McCarter, Gastonia.
Sigma Tau Sigma Award: Paul Arthur Tucker, Jr., Locust.
Textile Veterans Association Award: Larry John Matheson, Asheville.
Saul F. Dribben Memorial Award: Charles Lester Kale, Raleigh.
John M. Reeves Scholarship: William James Burgess, Staley.
North Carolina Textile Manufacturers Association Award: William Thomas Hester, Raleigh.
Harry Riemer Award: Roy Clark Thompson, Saluda.

ALUMNI ATHLETIC TROPHY

Hazel Benton Matthews, Hertford.

PHI KAPPA PHI, NATIONAL HONORARY SCHOLARSHIP SOCIETY

Graduate Student Ph. D. Award: William Daniel Stanley, Bladenboro.
Graduate Student Masters Award: Marvin Kenneth Aycock, Jr., Warrenton.
Sophomore Honorary Awards: Robert Warren Downing, Winston-Salem; Charles Newton Winton, Raleigh.
Junior Honorary Awards: Charles Leroy Hutchins, Winston-Salem; James Mumford Sawhill, Jr., Ruxton, Maryland.
Senior Honorary Awards: Harvey Thomas Banks, Newton; Charles William Bostian, Raleigh; William Arthur Brantley, Raleigh; Jacob Aster Davis, Raleigh; William Marcus Deal, Lenoir; Williard Lee Garrison, Pfafftown; Jerry Stevenson Lee, Shelby; David Tilden Putnam, Denton.

AIR FORCE AWARDS

American Legion Medal: Cadet Col. Fredrick L. Beyer, Durham.
Air Force Association Award: Cadet Captain Robert B. Grove, Rock Hill, South Carolina.
Chicago Tribune ROTC Medals: Cadet Tommy C. Edwards, Gastonia; Cadet MSgt. David J. Ivey, Alexander, Virginia; Cadet Capt. Stanford L. Carter, Greensboro; Cadet Major George M. Mann, Jr., Wilmington.
General Dynamics Cadet Award: Cadet MSgt Samuel B. Land, Jr., South Hill, Virginia.
Reserve Officers Association Awards: Cadet 1st Lt. Edward A. Lennon, Morganton; Cadet Lt. Col. George W. Allen, Tar Heel.
Sons of the American Revolution Medal: Cadet Charles T. Gurkin, Plymouth.
Armed Forces Communications & Electronics Association Award: Cadet Maj. David W. Whitlow, High Point.
Air Force Times Award: Cadet Major Leon J. Poteet, Morganton.
Major General William C. Lee Scholarship Award: Cadet Leo G. Miller, Booneville.
Scabbard & Blade Award: Cadet MSgt. William A. Jenkins, Charlotte.
Daughters of the Founders & Patriots of America Award: Cadet MSgt. Larry A. Dillon, Greensboro.
Best Drilled Cadet Awards: Cadet MSgt. William A. Stephenson, Raleigh; Cadet MSgt. James D. Myers, Durham; Cadet Major Robert B. Bourne, Raleigh.
Professor of Air Science Award: Cadet Major Dennis A. Rose, Littleton.
AFROTC Flight Leader Award: Cadet Capt. Charles B. Griffin, Woodville.
Arnold Air Society Award: Cadet MSgt. David B. Hill, Wadesboro.
Society of American Military Engineers Award: Cadet Major Robert G. Rouse, Magnolia.
Academic Achievement Awards: Cadet Major Robert G. Rouse, Magnolia; Cadet Major Woodrow M. Taylor, Deep Run; Cadet Captain Robert B. Grove, Rock Hill, South Carolina; Cadet Wayland K. Bell, Faison; Cadet Norvin A. Clontz, Glen Alpine.

ARMY ROTC AWARDS

The Department of the Army Superior Cadet Award: Senior Class—Cadet Captain Tommy G. Sharpe, Statesville; Junior Class—Cadet Sergeant Major George P. Kittrell, Jr., Corapeake; Sophomore Class—Cadet 1st Lieutenant Jimmie D. Gregory, Angier; Freshman Class—Cadet John C. Pratt, Goldsboro.

Certificate of Meritorious Leadership Achievement: Cadet Colonel Richard F. Hill, III, Arden.

The Colonel John W. Harrelson Award: Cadet Crowell G. Bowers, Norwood.

Association of United States Army Medal: Cadet Captain Sabert S. Trott, II, Kannapolis.

Association of United States Army Special Award: Cadet Robert T. Penland, Davidson.

American Ordinance Association Key Award: Cadet Major William A. Brantley, Raleigh.

Best Drilled MS I Cadet Award: Cadet William M. Feldman, Burnt Hills, New York.

Best Drilled Pershing Rifle Cadet Award: Cadet Second Lieutenant Michael R. Norris, Wilmington.

Master Sergeant Horace C. Thomas, Sr. Award: Cadet Staff Sergeant Phillip C. Stephens, Rocky Mount.

Chicago Tribune Gold Medals: Cadet Colonel Richard F. Hill, III, Arden; Cadet Lieutenant Colonel Ronald J. Goldstein, Mooresville.

Chicago Tribune Silver Medals: Cadet Second Lieutenant Donald W. Coon, Santa Anna, California; Cadet Sergeant First Class Jerry L. Self, Casar.

Society of American Military Engineers Award: Cadet Captain Tommy G. Sharpe, Statesville; Cadet Sergeant First Class Kirby L. Ball, Thomasville.

National Defense Transportation Association Medal: Cadet Captain Gerald N. Moore, Fayetteville.

The National Defense Supply Association Medal: Cadet Sergeant Major George P. Kittrell, Jr., Corapeake.

Armed Forces Chemical Association Award: Cadet Second Lieutenant Larry B. Carawan, Wilmington.

American Legion Medal: Cadet Lieutenant Colonel Clemon E. Bass, Edenton.

Scabbard and Blade Award: Cadet Second Lieutenant Michael R. Norris, Wilmington.

Scabbard and Blade Marksmanship Award: Cadet Captain Frank E. Lustig, Clemmons.

Armed Forces Communications and Electronics Award: Cadet Captain Tommy G. Sharpe, Statesville.

Reserve Officers Association Honor Award: Cadet Lieutenant Colonel Gorege S. York, Raleigh.

Reserve Officers Association Medal: Cadet Sergeant First Class Richard B. Phillips, Raleigh.

Pershing Rifles Achievement Trophies: Cadet Second Lieutenant Ronald L. Miller, West Islip, New York; Cadet First Lieutenant Charles P. Barrow, Raleigh; Cadet Captain Gerald N. Moore, Fayetteville.

Pershing Rifles Bronze Medals: Cadet Second Lieutenant Edward Poncavage, Raleigh; Cadet Second Lieutenant Francis T. Moss, Fayetteville; Cadet Second Lieutenant Ronald L. Miller, West Islip, New York; Miss Kathleen Canaday, Raleigh; Cadet First Lieutenant Charles P. Barrow, Raleigh.

Pershing Rifles Silver Medals: Cadet Captain Sabert S. Trott, II, Kannapolis; Cadet Second Lieutenant Robert H. Upchurch, Raleigh.

Pershing Rifles Gold Medal: Cadet Captain Gerald N. Moore, Fayetteville.

Sons of the American Revolution Medal: Cadet Second Lieutenant Robert H. Upchurch, Raleigh.

Daughters of the Founders and Patriots of America Award: Cadet Robert T. Penland, Davidson.

Commander of the Drum and Bugle Corps Special Award: Cadet Major Alan M. Bagully, Charlotte.

Professor of Military Science Award: Cadet Captain Joseph M. Carpenter, Jr., Wagram, Commanding Officer of Company "B", Second Battalion.

THE STATE COLLEGE RECORD

1963

Summer Sessions

N. C. STATE COLLEGE

OF THE UNIVERSITY OF NORTH CAROLINA



NORTH CAROLINA STATE

1963 SUMMER SESSIONS

CALENDAR

FIRST SESSION

June 10	Monday	New student orientation
June 11	Tuesday	Registration and fee payment for regular session. Late registration fee of \$5 payable by all registering after June 11.
June 12	Wednesday	First day of classes.
June 17	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
June 21	Friday	Last day to drop courses without failure and last day to withdraw without failure.
July 4-5	Thursday and Friday	Holidays
July 18	Thursday	Last day of classes.
July 19	Friday	Final examinations.

SECOND SESSION

July 19	Friday	New student orientation.
July 22	Monday	Registration and fee payment. Late registration fee of \$5 payable by all registering after July 22.
July 23	Tuesday	First day of classes.
July 29	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
August 2	Friday	Last day to drop courses without failure and last day to withdraw without failure.
August 23	Friday	Last day of classes.
August 24	Saturday	Final examinations.



OFFICERS OF ADMINISTRATION

THE CONSOLIDATED UNIVERSITY OF NORTH CAROLINA

William C. Friday, B.S., LL.B., LL.D.	<i>President</i>
Donald B. Anderson, B.A., B.Sc. Ed., M.A., Ph.D.	<i>Vice-President</i>
Fred H. Weaver, A.B., M.A.	<i>Secretary to the University</i>
Alexander H. Shepard, Jr., A.B., M.A.	<i>Business Officer and Treasurer</i>

NORTH CAROLINA STATE COLLEGE

John T. Caldwell, B.S., M.A., Ph.D.	<i>Chancellor</i>
Harry C. Kelly, B.S., M.S., Ph.D.	<i>Dean of the Faculty</i>
J. Graves Vann	<i>Business Manager</i>
Lex L. Ray, B.S.	<i>Director of Foundations</i>
James J. Stewart, M.A.	<i>Dean of Student Affairs</i>
Jack Suberman, B.A., M.A., Ph.D.	<i>Director of Summer Sessions</i>

THE SCHOOLS

Herman B. James	<i>Dean of the School of Agriculture</i>
Edward W. Glazener	<i>Director of Instruction, School of Agriculture</i>
Henry L. Kamphoefner	<i>Dean of the School of Design</i>
James B. Kirkland	<i>Dean of the School of Education</i>
Ralph E. Fadum	<i>Dean of the School of Engineering</i>
Robert G. Carson, Jr.,	<i>Director of Instruction, School of Engineering</i>
Richard J. Preston,	<i>Dean of the School of Forestry</i>
Fred V. Cahill, Jr.,	<i>Dean of the School of General Studies</i>
Arthur C. Menius, Jr.	<i>Dean of the School of Physical Sciences and Applied Mathematics</i>
Carey G. Mumford	<i>Assistant to the Dean</i>
Malcolm E. Campbell	<i>Dean of the School of Textiles</i>
James W. Klibbe	<i>Academic Coordinator, School of Textiles</i>
Walter J. Peterson,	<i>Dean of the Graduate School</i>

ADMISSIONS AND REGISTRATION

Kenneth D. Raab	<i>Director</i>
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- LEON FREEDMAN, Ph.D.
Associate Professor of Chemistry
- R. M. FREYRE, Ph.D.
Assistant Professor of Physics
- DANIEL FROMM, Ph.D.
Associate Professor of Food Science
- MARTHA J. GARREN, A.B.
Instructor of Mathematics
- FLOYD P. GEHRES, M.A.
Assistant Professor of Industrial Education
- DICK L. GEORGE, Ph.D.
Assistant Professor of Mathematics
- D. U. GERSTEL, Ph.D.
Professor of Crop Science
- FORREST W. GETZEN, Ph.D.
Associate Professor of Chemistry
- W. B. GILBERT, Ph.D.
Assistant Professor of Crop Science
- A. H. E. GRANDAGE, Ph.D.
Professor of Experimental Statistics
- W. C. GREGORY, Ph.D.
William Neal Reynolds Distinguished Professor of Crop Science
- H. D. GROSS, Ph.D.
Associate Professor of Crop Science
- E. B. GROVER, B.S.
Head of Department of Textile Technology and Abel C. Lineberger Professor of Yarn Processing
- GEORGE A. GULLETTE, Ph.D.
Head of Department and Professor of Social Studies
- F. E. GUTHRIE, Ph.D.
Professor of Entomology
- FRANK A. HAASIS, Ph.D.
Professor of Plant Pathology
- R. J. HADER, Ph.D.
Professor of Experimental Statistics
- J. L. HALL, Ph.D.
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Teaching Assistant of Electrical Engineering
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- E. HODGSON, Ph.D.
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Associate Professor of Industrial
Arts

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In Charge, Soils Instruction and
Associate Professor of Soil Science
M. G. ZAALOUK, M.S.
Graduate Teaching Assistant of
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COLLEGE UNION

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COUNSELING

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THE COLLEGE

North Carolina State College of the University of North Carolina, founded by legislative act on March 7, 1887, first opened its doors to students on October 3, 1889. Since that time, the enrollment has grown from 45 to approximately 7,250 and the faculty has increased from 6 to 945. In 1931, the State's Land Grant College and technological center became a part of the University of North Carolina and has since operated as part of a triumvirate that now numbers some 20,000 students.

The major objective of North Carolina State is to provide an opportunity for students to obtain the highest level of scientific and technological training and, concurrently, to offer them facilities for obtaining a broad and general education. In order to achieve this end, the College is organized into eight major instructional divisions or schools: Agriculture, Design, Education, Engineering, Forestry, General Studies, Physical Sciences and Applied Mathematics, and Textiles, offering undergraduate work in 48 departments. Through the Graduate School, the College provides instruction in some 35 fields leading to the master's degree and in 18 fields leading to the degree of Doctor of Philosophy. The general objectives of the College are also carried out through several institutes and divisions, including the Institute of Statistics, the Agricultural Experiment Station with its 16 test farms, the Agricultural Extension Service, and the College Extension Division.

THE SUMMER SESSIONS

The Summer Sessions at North Carolina State offer an extensive and varied program to fit the educational needs of more than 4,500 students. Forty-three departments, with a faculty of almost three hundred, offer work in some three hundred courses, one-third of which are in the area of graduate study and research. Each of State's eight schools provides facilities for summer study; six of the schools offer courses during each of the regular six-week sessions; the School of Design maintains a nine-week program; the School of Forestry conducts a summer camp for sophomores as well as two five-week practicums, and Agricultural Extension offers a three-week program for Extension workers. In addition, special programs and institutes are provided by various departments.

Summer courses and special programs are designed for the undergraduate who wishes to advance his academic standing at the College, for the graduate who needs to continue his study and research during the summer months, for visiting students working toward degrees at other institutions, for teachers earning credit toward the renewal of their certificates or toward advanced degrees, and for persons in professional fields who wish to keep abreast of new development and trends. In addition, the Summer Sessions offer the high school student planning to enroll in N. C. State an opportunity to take required sub-college level work in English and mathematics.

In keeping with the growing emphasis on science, the 1963 Summer Sessions have continued to increase the regular offerings in chemistry and have established one of the most comprehensive graduate and undergraduate programs in mathematics and physics available in the Southeast. To meet the needs of a broad, liberal education in the humanities and social sciences, new summer courses have been added in economics, English, history, music, political science, psychology, and sociology. The demand for professional and technical training has been met, not only through the regular summer offerings, but by augmented programs in mechanical engineering and textiles. Extensive undergraduate and graduate training has been provided in selected areas of Education, and a comprehensive graduate program has been maintained in the agricultural sciences.

NEW BUILDINGS

The varied programs offered in the Summer Sessions are being enhanced by the addition of new structures on the campus. Among the notable new buildings already completed are the Physical Education Building, the new Student Supply Store, Bragaw Dormitory, and Harrelson Hall.

The huge Physical Education Building houses such gymnasium facilities as a swimming pool, 25 meters by 25 yards in size; 10 four-wall handball courts; six squash courts; and games area. In addition, the building provides space and equipment for wrestling, boxing, weight-lifting, and other gymnastics, a golf room and a correctives room.

The ultra-modern Student Supply Store offers books to whet diversified appetites. The reading material ranges from 25-cent paperbacks to the latest engineering encyclopedia. The spacious store, which contains 21,000 square feet, is completely air-conditioned.

Bragaw Dormitory is one of the most modern dormitories on any campus. All corridors in this well-designed building are on the outside. They open into suites, each with accommodations for eight students. The building includes a dormitory office, student lounges, recreation rooms, mail rooms, a laundry pickup station, and a snack bar.

Harrelson Hall offers something new and different in classroom buildings: it is a circular structure, approximately 206 feet in diameter. Colossal Harrelson Hall accommodates 4,500 students at a time in classes ranging from 30 to 200 students. More than half of the Summer Sessions' classes will be taught in this modern, air-conditioned building.

SPECIAL NOTES

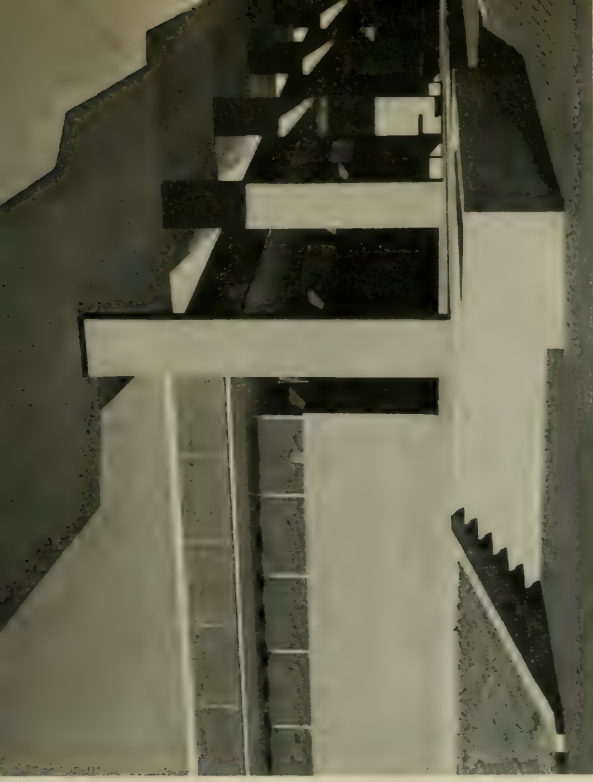
All applicants for the regular Summer Sessions who are not now in residence at State must complete and return the necessary forms attached at the end of this catalog. To ensure proper enrollment, forms must contain all information requested and, with the exception of the Request for Dormitory Room Reservation, must be returned to the Director of Summer Sessions as early as possible. Students attending any of the Institute Summer Sessions or the three-week session in Agricultural Extension should write directly to the director of the program concerned.

All students planning to take courses in both sessions should plan their sequences well in advance. Offerings in the Second Session are often substantially less in number than in the first, and, in many instances, departments do not offer courses in both sessions of the summer school.

Everything possible will be done to ensure that the courses listed in this catalog are given at the times indicated. The Director of the Summer Sessions reserves the right, however, to withdraw courses in which the enrollment is deemed insufficient.



William D. Carmichael Gymnasium



Student Supply Store



Harrelson Hall



Bragaw Dormitory

ADMISSIONS

FRESHMEN

Entrance examinations are required of all students entering North Carolina State as freshmen or as students without college credit and of all transfer students who lack credit in either English or college algebra. Wherever possible, students in this category should take the College Entrance Examination Board Scholastic Aptitude Test, registering for the examination with the College Entrance Examination Board, Box 592, Princeton, New Jersey. Generally, students entering in June, 1963, should take the College Examination no later than March 2; those entering in July may take the examination on May 18. There will be special administrations of these tests at later dates beginning June 3 for students who have made late decisions about college. Permission to take these must be obtained by writing Dr. Lyle B. Rogers, Director of Counseling.

TRANSFERS AND VISITING STUDENTS

Undergraduate students who have never attended North Carolina State, teachers, and others who are enrolling for the summer only *may* be required to furnish a transcript of their academic record. Former students who have attended other institutions since their last residence at North Carolina State, undergraduate transfers who wish to enroll for a degree, and graduate students enrolling for the first time *must* furnish official transcripts of their academic qualifications. Transfer students who lack credit in either English or college algebra must take the required entrance examinations. (For details concerning the submission of transcripts, see REGISTRATION.)

Visiting students should secure a written statement from their regular institution acknowledging that the courses planned by the student are transferable to that institution. These statements are for the students' protection and should not be sent or brought to State College. All applicants for admission must present evidence of acceptable preparation for work at the college level.

COUNSELING SERVICE

The State College Counseling Center, located in Room 202, Holladay Hall, provides a special counseling service to new students in order to assist them in becoming oriented to the College and to aid them in choosing a field of study.

Brooks Hall
Home of School
of Design



HOUSING

DORMITORIES

BRAGAW Dormitory will be available for occupancy during the Summer Sessions. Accommodations will be provided for both men and women during each of the regular sessions. Bed linen, blankets and pillows are not furnished; however, linen rental service is available at a cost of \$5.00 for each regular Summer Session. Students will normally be housed two in each room. Janitorial service, supplied by the College, does not include the making of beds. Single rooms are not available.

Forms for requesting dormitory rooms for the regular Summer Sessions and linen rental service will be found at the end of the catalog.

Persons attending *special* summer programs, such as, Agricultural Extension and other special groups, should contact the Director of their particular program for housing information.

LINEN RENTAL SERVICE

This is an additional service the College is offering this year. The service provides an initial issue of linen —two sheets, one pillow case, three bath towels, and a complete change each week during the

Summer Session. Students using this service need not purchase or bring these items to school. The service is available to all students at a cost of \$5.00 per Summer Session. Applications for this service will be found at the end of this catalog and should be mailed to the Business Office.

EXPENSES

The following expenses apply for each of the regular six-week sessions:

TUITION	\$ 7.50 per semester credit for North Carolina students. \$18.50 per semester credit for out-of-state students. \$ 7.50 for each credit hour audited.
FEES	\$11.00 for registration and other fees. (A late fee of \$5.00 will be charged all students completing their registration after the designated date.)
ROOM	\$30.00 per person.
BOARD	Board is cafeteria style and the cost depends upon the individual student. A fair estimate would be about \$75.00 per session.
GRADUATION FEE	Any student who is completing requirements for graduation at the close of one of the Summer Sessions will be charged a fee of \$9.00 if he is securing a Bachelor's degree, a fee of \$12.00 if he is completing work for a Master's degree, and a fee of \$17.00 if he is a candidate for the degree of Doctor of Philosophy. The Graduate School will also charge Doctor of Philosophy candidates a fee of \$21.00 for microfilming and mailing dissertations.

Refunds

Tuition and Fees:

A student who withdraws from school on or before the last day for registration will receive a refund of the full amount paid, less \$5 registration fee. On later withdrawals no refund is made.

Room Rent:

If a student vacates his room on or before the last day for registra-

tion, the rent paid will be refunded less the \$10.00 room reservation fee or a charge of \$1.00 per day, whichever amount is greater, from the first day of the registration period to the date of cancellation. After the last day for registration, no refund will be made for any reason other than official withdrawal from school. In such cases, the rent paid will be refunded, less a charge of \$1.00 per day from the first day of the registration period to the date of cancellation. Room and mail box keys must be returned to the Housing Rental Office before refund of rent will be made.

REGISTRATION

STATE COLLEGE STUDENTS

N. C. State students having completed the spring semester in residence should indicate their intentions to attend the Summer Sessions at 101 Pullen Hall between April 29 and May 10. Permits to register will be made from this information.

Permits for the First Session may be picked up at Pullen Hall on Monday, June 10, between 9:00 A.M. and 4:00 P.M. and on Tuesday, June 11, between 9:00 A.M. and 12:00 noon.

Permits for the Second Session will be available at Pullen Hall on Thursday and Friday, July 18 and 19. Registration instructions will be found with the permits.

Former N. C. State students who were not in residence during the spring semester should go to Room 10, Holladay Hall, to apply for readmission not later than May 31, or, to save time, apply in writing to the Director of Admissions by May 31. To obtain their permits, these students should go to Pullen Hall on the dates mentioned in the preceding paragraphs. Former students who have attended other institutions since their last residence at N. C. State must have official transcripts sent to the Registration Office before registering for the Summer Sessions.

VISITING STUDENTS

Undergraduate students from other colleges, teachers, and other students coming to N. C. State for the summer only, should submit their Summer Session applications to the Director of Summer Sessions, 101 Pullen Hall, not later than May 31. A transcript of academic credits and other information attesting to the qualifications of the student may be required for completion of the application. Students admitted as visitors will get their permits and class schedules at the Summer Sessions Office.

UNDERGRADUATE TRANSFERS

Undergraduate students who desire to become regularly enrolled for credit toward an undergraduate degree should write to the Director of Admissions for full information. Before their admission can be approved, they will need to fill out a *regular* application and have official transcripts sent directly to the Director of Admissions.

GRADUATE STUDENTS

Graduate students who desire to enroll for the first time in the Graduate School should write in advance to Dr. Walter J. Peterson, Dean of the Graduate School, and secure approval. Official transcripts of undergraduate and any previous graduate work will be required prior to registration for the Summer Sessions.

SPECIAL REGISTRATION PROCEDURES FOR PUBLIC SCHOOL PERSONNEL

Public school personnel (primary teachers, secondary teachers or administrators) registering at State College for the first time and interested primarily in "Certification Credit" may enroll for certificate renewal as graduate students for a maximum of six semester hours without forwarding official transcripts of previous work to the Graduate Office. If, however, application is not made through normal channels for graduate credit in the session in which the course or courses are taken, the student will not be permitted to apply the credit toward an advanced degree at State College, or elsewhere.

In all cases where the teacher's interest is primarily in approval for certification credit, the School of Education will be responsible for assessing the adequacy of the teacher's qualifications for enrollment in the College and in the particular course or courses. The School of Education will also be responsible for adequately advising all such students early in each school session that if it is wished that credits will in due course apply to a higher degree at State College, or elsewhere, normal admission procedures will be required. (All renewal credit on or renewal credit of "A" certificates or lower certification may register as visiting students.)

All teachers who have previously attended State College and earned six semester hours of credit and wish to enroll for additional courses for graduate credit will be required to make application for admission to the Graduate School in the usual manner, if they have not already done so.

In all cases a "B" level or better of academic performance is required.

MAXIMUM CREDIT HOURS

The normal load for either session of the Summer Sessions is six semester hours. Any student may carry less. Loads in excess of seven

hours must be approved by the Dean or Director of Instruction of the school in which the student is registered. Such approvals must be in writing on the original copy of the student's Summer Session roster of courses. The maximum load is nine hours for any one session.

VETERANS under P. L. 346 must carry four semester hours and undergraduate VETERANS under P. L. 550 must carry five semester hours to qualify for full subsistence or payment. Graduate VETERANS under P. L. 550 should carry four semester hours for full subsistence. VETERANS desiring benefits under P. L. 550 must fill out the required forms for the Veteran's secretary in the Coliseum at Registration or in Room 9, Holladay Hall, immediately after Registration Day.

THE COLLEGE LIBRARY

The D. H. Hill Library of North Carolina State College houses a collection of more than 265,000 volumes of books and bound journals. The collection has been developed to reflect the scientific and technical interests of the College, but materials in the arts and social sciences are also well represented. The Library subscribes to more than 3,800 current periodicals and contains over 21,000 bound volumes of documents from the Federal Government and the various Experiment Stations. The Library has been designated as one of the depositories for all unclassified publications of the Atomic Energy Commission and receives on exchange the publications of many foreign countries—especially those publications dealing with the agricultural sciences and with engineering.

A new, modern library building provides shelving for 400,000 volumes. Study carrels, conference rooms, and seminars are available for the students and faculty of the College. Equipment for the production of photographic copies and for microphotography is available and there is excellent equipment on hand for reading microfilms and microcards.

Students and faculty will find the College Library a useful and enjoyable adjunct to their Summer Sessions program, and will find the materials and services afforded to scholar, student, and browser a welcome discovery.

Library hours for the Summer Sessions are as follows:

Monday through Friday, 8:00 A.M. to 10:00 P.M. and Saturday, 8:00 A.M. to 1:00 P.M.

THE COLLEGE UNION

The center of summer activity is the College Union, one of the nation's most modern social-cultural centers. All students on the campus are members and are invited to attend, free of charge, all programs sponsored by the Summer Sessions committee. Every member is

welcome to join the committee and take part in planning the Union social-cultural program.

During the summer, the Union sponsors a variety of entertainment. Activities will probably include parties, patio dances, outings to the beach and to the mountains, picnics, movies, and a varied program of professional entertainment.

The completely air-conditioned College Union offers many facilities and services to members and their guests. Facilities for recreation and leisure include a music-listening lounge, a television lounge, a gallery for the display of student art and craft, a photography lab, a craft shop, a library lounge, a billiard room, and a quiet room. Services include a barber shop, cloak room, snack bar, dining room, hotel rooms, meeting rooms, and a center where students may apply for work while attending college.

Building hours for the First Session are as follows:

Monday-Thursday	7:00 A.M. to 10:30 P.M.
Friday	7:00 A.M. to 11:00 P.M.
Saturday	8:00 A.M. to 6:00 P.M.
Sunday	12:00 noon to 6:00 P.M.

Second Session:

Monday-Thursday	7:00 A.M. to 10:00 P.M.
Friday	7:00 A.M. to 10:30 P.M.
Saturday	8:00 A.M. to 6:00 P.M.
Sunday	12:00 noon to 6:00 P.M.



The College Union

PART-TIME EMPLOYMENT

Part-time employment is often available in Raleigh and vicinity during the summer for those willing to do whatever work is called for or for those having certain skills. While job opportunities for young men are fairly good, opportunities for women students are limited. No student should depend on earning enough money to cover tuition and living expenses, however. Because of less crowded class schedules, competition for the available jobs is much keener than during the regular term. Moreover, many campus agencies that hire a number of student workers during the year require less staff in the summertime due to the decreased enrollment.

The Student Employment Office, which operates as an integral part of the Financial Aid Office, receives job orders from various sources at the College and in Raleigh. The jobs more commonly listed with this office in recent summers have been in the following areas: gardening, clerical, house cleaning, waiters, laboratory and tutoring. The College cannot attempt to assign jobs in advance of registration. After that time students should visit the Student Employment Office, 202 Holladay Hall, and consult the list of current job openings.

WUNC-TELEVISION

State College maintains one of the three studios of WUNC-Television, Channel 4, North Carolina's Educational Television operation. Similar studios, cooperating in the production of Channel 4's programming, are located at the University in Chapel Hill and at the Woman's College in Greensboro. Throughout the year, Channel 4 programs a variety of educational subjects including courses for credit—designed to aid teacher certification, informational series for continuing adult education, and programs dedicated to the advancement of cultural activities.

The WUNC-Television studios at Raleigh occupy a modern building on Western Boulevard directly west of the Campus and include a complete complement of telecasting equipment for independent operation. Interested visitors are invited to inspect the studios and enjoy the summer programs.

SPECIAL SESSIONS AND PROGRAMS

SOUTHERN REGIONAL GRADUATE SUMMER SESSION IN STATISTICS

AND

SPECIAL SESSION ON MATHEMATICAL METHODS IN BIOLOGY

The *Southern Regional Graduate Summer Session in Statistics*, which rotates in successive summers among North Carolina State College, Virginia Polytechnic Institute, Florida State University, and Oklahoma State University, will be held this year at North Carolina State College, Raleigh. A wide range of theoretical and applied statistics, with related courses in mathematics, will be offered. The work is so organized that basic courses for the Master's degree can be completed in three summer sessions. Work at the Ph.D. level is also offered.

A concurrent program of six new course offerings and a series of special-topic seminars supported by the National Science Foundation will constitute a *Special Session on Mathematical Methods in Biology*. College teachers and graduate students interested primarily in applications of mathematics in biology and related areas are eligible to apply for National Science Foundation stipends, which will range from \$60 per week for graduate students to \$100 or more for teachers who have the Doctor's degree. Stipend holders will receive travel, dependency, and tuition allowances in addition to the stipend. While only selected teachers and graduate students will be eligible for National Science Foundation stipends, the session is open to all qualified teachers, research workers, and other interested persons in such areas as wildlife, fish and game management, animal and plant ecology, psychology, physiology, and biochemistry. Applications for National Science Foundation support should be received in Raleigh by about March 16, 1963.

Detailed information and application blanks for either of the above sessions are available from

Dr. F. E. McVay, Managing Director
Statistics Summer Session, North Carolina
State College
Box 5457, Raleigh, North Carolina

INSTITUTE IN BIOLOGY FOR HIGH SCHOOL TEACHERS— JUNE 10-JULY 19

The Department of Science and Mathematics Education and the Institute of Biological Science are offering a program of advanced instruction for high school teachers of biology. The Institute is sponsored by the National Science Foundation and is intended to prepare

the participants for the teaching of modern biology in the high schools.

The two major parts of the program will consist of courses in (1) Principles of Genetics and (2) Foundations of Modern Biology. The Summer Institute in Genetics, to be in session concurrently with this program, will offer a unique opportunity for high school teachers to obtain instruction in the science of heredity that would not otherwise be available to them. The biology course will give emphasis to material needed in the reconstruction of the high school biology curriculum. This Institute will stress the association of the teacher with a research environment that can be illustrated by the faculty, courses and seminars of this program and it is hoped that this can then be transmitted to the high school students. Those individuals selected to attend will be highly screened and emphasis in selection placed on the likelihood that they will pursue the necessary advanced study to become effective in modernizing the biology teaching in the high school curriculum. Graduate credit will be allowable in the two courses to be offered in the program.

Stipends, travel and dependency allowances will be provided from the National Science Foundation support. Application forms are obtainable from the Director, Institute of Biological Sciences and the Department of Science and Mathematics, School of Education, North Carolina State College. Thirty-five participants are to be selected to receive the stipend awards.

INSTITUTE OF BIOLOGICAL SCIENCES SUMMER INSTITUTE PROGRAMS

Institute in Genetics for College Teachers of Biology and Genetics,
June 10-July 19

The 1963 Summer Institute in Genetics for College Teachers of Biology and Genetics is to be conducted by the Department of Genetics and sponsored by the National Science Foundation. This is the third such Institute held here for college teachers and designed to increase the competence of teachers of genetics in Departments of Biology, throughout the country. This program is intended for college faculty of institutions that do not have active research programs in genetics and the teaching of this subject has to be carried on by biologists needing additional training in this specialized area.

The program will consist of two major parts. A general course will be given at an elementary level with emphasis on teaching methodology including the preparation and presentation of laboratory exercises that should be an integral part of a course in genetics. The second part will be devoted to special lectures on topics of current interest and presented by leading research authorities. Both courses will continue throughout the six weeks period of the Institute and can be taken for graduate credit.

Application forms and additional information can be obtained from the Director, Institute of Biological Sciences at North Carolina State College. The grant received from the National Science Foundation for support of the Summer Institutes provides stipends, dependency allowances and reimbursement for travel costs for participants selected to attend. It is expected that forty college teachers will be selected to receive the stipend awards.

COUNSELING AND GUIDANCE INSTITUTE **JUNE 10-JULY 19, 1963**

The Department of Occupational Information and Guidance of the School of Education has been selected for the fifth consecutive summer by the U. S. Office of Education to conduct a summer Counseling and Guidance Training Institute as authorized by the National Defense Education Act. The purpose of the Institute is to help advanced school counselors do a more professional job in counseling able secondary school students.

The Institute will enroll 30 experienced secondary school counselors who have completed 30 semester hours or more of professional preparation, at least 18 hours in counselor education courses and 12 hours in related areas. Enrollees will take two graduate courses of three semester hours each. The courses will deal with counseling the able underachiever including laboratory practice in group guidance and individual counseling of able underachievers and their parents.

Preference will be given to outstanding full-time secondary school counselors who plan to remain in the field of counseling. A score on the Miller Analogies Test or the aptitude test of the Graduate Record Examination will be used with each applicant's credentials to give additional information to the selection committee in the consideration of applicants.

Special lectures by outstanding professional leaders in counseling will be scheduled to reinforce and enhance the Institute program. Visiting professors will be Dr. Dorothy Bird, School Psychologist, Shreveport; Dr. Earl C. Brown, Acting Head of the Psychology Department, University of Alabama; Dr. Lawrence H. Stewart, Associate Professor of Education, University of California at Berkley. Visiting lecturers will be Dr. Raymond C. Hummel, Assistant Professor of Education, Harvard University; Dr. Walter M. Lifton, formerly Associate Professor of Education, University of Illinois; and Dr. David V. Tiedeman, Professor of Education, Harvard University. Dr. Charles G. Morehead, Associate Professor of Education, N. C. State College, is the Director of the Institute and a member of the Institute faculty.

Public school counselors attending the Institute will receive stipends of \$450 for the six-week term plus \$90 for each dependent. Classes will be held in the new circular classroom building, Harrelson Hall, which is completely air-conditioned.

Additional information concerning the Institute will be sent upon request. Interested persons should write to Dr. Charles G. Morehead, Director of Counseling and Guidance Institute, Department of Occupational Information and Guidance, School of Education, N. C. State College, Raleigh, N. C.

FORESTRY SUMMER PROGRAM

The School of Forestry requires students in Forest Management and Wood Technology to attend a ten-week program during the summer. This program follows the Sophomore year. Students majoring in Forest Management spend the ten weeks in the School's permanent camps in the Piedmont and Mountain forests. Students in Wood Technology spend the first five weeks in a wood products practicum on the campus and the second five weeks in a woods practicum in the School's forests.

The Industrial Engineering curriculum in Furniture Manufacturing and Management requires students to attend the five-week wood products practicum on the campus following the Sophomore year.

Summer Camp (June 10-August 16)

- FOR s204 Silviculture (3)
- FOR s264 Protection (3)
- FOR s274 Mapping and Mensuration (3)
- FOR s284 Utilization (1)

Wood Products Practicum (June 3-July 5)

- FOR s205 Wood Machining Practicum (1)
- FOR s206 Wood Drying Practicum (1)
- FOR s207 Gluing Practicum (1)
- FOR s208 Wood Finishing Practicum (1)
- FOR s209 Plant Inspections

Woods Practicum (July 8-August 9)

- FOR s210 Mensuration (2)
- FOR s211 Logging and Milling (2)
- FOR s212 Graphic Methods (1)

Expenses

Tuition	\$60.00 for North Carolina students 84.00 for out-of-state students (Students in Furniture Manufacturing and Management pay one-half tuition)
Registration and Medical fee (for camp)	\$ 6.00
Registration fee for Practicum	\$11.00
Maintenance and Supply fee	20.00
Board (estimated for periods in camp)	9.00 (per week)

NUCLEAR ENERGY SUMMER INSTITUTES PROGRAM

ADVANCED INSTITUTE JUNE 19-JULY 13

The Nuclear Energy Summer Institutes Program is sponsored by the American Society for Engineering Education and the U. S. Atomic Energy Commission.

N. C. State College will offer this summer an advanced institute in nuclear reactor theory designed for engineering educators from colleges and universities in the United States and Puerto Rico. The School of Physical Sciences and Applied Mathematics will present this institute through the College's Extension Division.

This four-week institute is especially for engineering college faculty members actively engaged in or preparing for active participation in nuclear engineering education who have by virtue of formal education or equivalent work experience a sound background in nuclear phenomena. The institute will consist of an integrated program of lectures, seminars, and laboratory sessions in reactor theory and related topics including reactor shielding, nuclear physics, and mathematics. The college's heterogeneous and homogeneous reactors, the Van De Graaff Accelerator, and the IBM 650 and UNIVAC 1105 digital computers will be used for laboratory experiments. This program will enhance the teachers' ability to develop and present new advanced courses in nuclear reactor physics and theory.

Application forms and a general information sheet are available in the office of the Dean of Engineering of each ASEE member college and university, or from The American Society for Engineering Education, University of Illinois, Urbana, Illinois. Those attending are to receive from their institution one month's salary in addition to that received for services during the academic year, and the AEC, through grants to the universities, matches this amount up to \$750, plus transportation. Professors attending the institute are selected by the ASEE's Nuclear Committee on the basis of personal qualifications, as well as on the proposed programs of their institutions.

ORIENTATION INSTITUTE JUNE 24-AUGUST 16

An eight-week orientation Institute in Nuclear Engineering will be offered by the Engineering School in cooperation with the Oak Ridge National Laboratory and the College's Extension Division. The objective will be to orient experienced college teachers in those specialized aspects of Nuclear Engineering directly related to their own disciplines. The areas to be covered by this summer institute are Reactor Energy Transfer (Heat Transfer, Fluid Mechanics and Thermodynamics as applied to removing energy from nuclear reactors) and Nuclear Instrumentation. Preparatory instruction will be provided in Nuclear Physics, Advanced Mathematics and Reactor Theory.

AGRICULTURAL EXTENSION JULY 1 - JULY 19

North Carolina State College offers a special three-week training program for Extension workers. The program, established at the request of the Extension workers, is designed to give them an opportunity to pursue courses of study that will improve their ability in their chosen field of endeavor.

Extension workers in agriculture and home economics participating in this program are enrolled in the School of Agriculture. Most of the courses to be offered will be taught at the graduate level. Each of them will be a three semester hour credit course. Persons desiring graduate credit should make application for admission to the Graduate School. Each person participating in the program will take only one course.

The college library and the various departmental libraries are available to persons enrolled in the program.

Further information may be obtained from F. S. Sloan, State Program Leader, North Carolina State College, Raleigh, N. C.

SUMMER READING WORKSHOP

The annual Summer Reading Workshop sponsored by the School of Education will provide a reading improvement section for entering college students during the *First Session*. Scores on college entrance tests indicate that a number of incoming freshmen could benefit from training in the improvement of reading rate, comprehension, and vocabulary building.

Entering college students who are interested in registering for this training, for which there is a small fee, should contact Dr. Paul Rust (Tompkins 212), Director of the Reading Workshop. The Workshop will meet hourly sessions on Monday, Wednesday, and Friday mornings.

PROFESSIONAL IMPROVEMENT FOR INDUSTRIAL EDUCATION TEACHERS AND SUPERVISORS

The rapid expansion of vocational education programs in the high schools and industrial education centers has increased the demand for competent personnel to provide instruction for the high school youth and adults. An attempt is being made this summer to offer a wide range of courses designed to increase the proficiency of Industrial Education teachers. Among these are courses for the coordinators of industrial cooperative training, day trade instructors, practical nursing instructors, local supervisors of Trade and Industrial Education and Directors of Industrial Education Centers. Two of the nation's outstanding educators in the field of Industrial Education will serve as visiting professors. Interested persons should write to Dr. Durwin M. Hanson, Head of the Industrial Education Department.

COURSES OFFERED

1. Courses are listed by department, IBM symbol and numerical designator.
2. Semester hour credits for each course are given in parenthesis following the name of the course. An "X" before the semester hours indicates that the course carries no college credit.
3. Classes meet daily, Monday through Friday, except where specified to the contrary.
4. The symbols "LR" and "LB" before the clock hours refer to Lecture-Recitation and Laboratory hours, respectively. If there is no symbol before the clock hours, Lecture-Recitation is implied.
5. Courses numbered from 1 through 100 are preparatory courses carrying no college credit; courses in the 100, 200, 300 and 400 series are primarily designed for undergraduates; courses in the 500 series for graduates and advanced undergraduates; and courses in the 600 series for graduates only.

AGRICULTURAL ECONOMICS

AGC 421	Agricultural Price Analysis (3)	
	<i>1st Session.</i> 8:00-9:30	R. A. Schrimper
AGC 621	Research in Agricultural Analysis (Arranged)	
	<i>1st Session.</i> Hours arranged.	Staff
AGC 642	Economics of Consumption, Demand and Market Interdependency (3)	
	<i>1st Session.</i> Hours arranged.	Richard A. King

AGRICULTURAL ENGINEERING

AGE 411	Farm Power and Machinery IIB (3)	
	<i>1st Session.</i> LR 10:20-11:50 MTW LB 1:40-5:50 MW	E. L. Howell
AGE 551	Special Problems (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff
AGE 651	Research in Agricultural Engineering (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff

ANIMAL SCIENCE

ANS 507	Topical Problems in Animal Science (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff
ANS 600	Research in Animal Science (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff

ARCHITECTURE

(These courses start 1st Session and run for nine weeks.)

DN 102	Design II (3)	
	LB 1:40-5:50	William J. Brown
DN 112	Descriptive Drawing II (2)	
	LB 1:40-4:50 MWF	William J. Baron
DN 212	Descriptive Drawing IV (2)	
	LB 1:40-4:50 MWF	William J. Baron
DN 312	Advanced Descriptive Drawing II (2)	
	LB 1:40-4:50 MWF	William J. Baron

INSTITUTE OF BIOLOGICAL SCIENCES

BS 501	Foundations of Modern Biology (3)	
	<i>1st Session.</i> LR 10:20-11:50 LB 1:00-4:00 W	Ernest Beal

BOTANY AND BACTERIOLOGY

BO 641	Research in Bacteriology (Arranged)	
	<i>Both sessions. Hours arranged.</i>	Staff
BO 651	Research in Botany (Arranged)	
	<i>Both sessions. Hours arranged.</i>	Staff

CHEMICAL ENGINEERING

CHE 205	Chemical Process Principles (4)	
	<i>1st Session. LR 8:00-9:30 LB arranged.</i>	E. P. Stahel
CHE 412	Unit Operations II (3)	
	<i>1st Session. LR 8:00-9:30 LB 8:00-10:10 TTh</i>	D. B. Marsland
CHE 470	Chemical Engineering Projects (2)	
	<i>Both sessions. Hours arranged.</i>	Staff
CHE 570	Chemical Engineering Projects (1-3)	
	<i>Both sessions. Hours arranged.</i>	Staff
CHE 617	Catalysis of Industrial Reactions (3)	
	<i>1st Session. Hours arranged.</i>	E. P. Stahel
CHE 680	Chemical Engineering Research (1-9)	
	<i>Both sessions. Hours arranged.</i>	Staff

CHEMISTRY

CH 101	General Chemistry I (4)	
	<i>Both sessions. LR 7:30-9:00 LB 1:40-5:50 MW</i>	Staff
CH 103	General Chemistry II (4)	
	<i>Both sessions. LR 7:30-9:00 LB 1:40-5:50 TTh</i>	Staff
	<i>1st Session. LR 10:20-11:50 LB 1:40-5:50 TTh</i>	Staff
CH 105	General Inorganic Chemistry (4)	
	<i>1st Session. LR 7:30-9:00 LB 1:40-5:50 MW</i>	Staff
CH 107	General Chemistry and Qualitative Analysis (4)	
	<i>Both sessions. LR 10:20-11:50 LB 1:40-5:50 TTh</i>	Staff
CH 215	Quantitative Analysis (4)	
	<i>1st Session. LR 10:20-11:50 LB 1:40-5:50 TTh</i>	Staff
CH 220	Introductory Organic Chemistry (4)	
	<i>1st Session. LR 7:30-9:00 LB 1:40-5:50 TTh</i>	Staff
CH 221	Organic Chemistry I (4)	
	<i>1st Session. LR 7:30-9:00 LB 1:40-5:50 MW</i>	Staff
CH 223	Organic Chemistry II (4)	
	<i>2nd Session. LR 7:30-9:00 LB 1:40-5:50 MW</i>	Staff
CH 231	Introductory Physical Chemistry (4)	
	<i>1st Session. LR 10:20-11:50 LB 1:40-5:50 TTh</i>	Staff
CH 351	Introductory Biochemistry (3)	
	<i>1st Session. LR 10:20-11:50 LB 1:40-5:50 TTh</i>	Staff
CH 431	Physical Chemistry I (3)	
	<i>1st Session. LR 7:30-9:00</i>	Staff
CH 433	Physical Chemistry II (3)	
	<i>2nd Session. LR 7:30-9:00</i>	Staff
CH 631	Chemical Research (Arranged)	
	<i>1st Session. Hours arranged.</i>	Staff

CIVIL ENGINEERING

CE 202	Surveying II (3)	
	<i>1st Session. LR 8:00-9:00 LB 1:40-5:50 TTh</i>	Staff
CE 321	Materials Testing Lab I (2)	
	<i>1st Session. LR 12:00-1:00 TTh LB 1:40-5:50 TTh</i>	Staff
CE 324	Structural Analysis I (3)	
	<i>1st Session. LR 8:00-9:00 LB 1:40-5:50 MW</i>	Staff

- CE 382 Hydraulics (3)
1st Session. LR 10:20-11:50 Staff
- CE 698 Civil Engineering Research (1-6)
Both sessions. Hours arranged. Staff

CROP SCIENCE

- CS 521 Special Problems (Arranged)
Both sessions. Hours arranged. Staff
- CS 542 Plant Breeding Field Procedures (Arranged)
Both sessions. Hours arranged. Staff
 (This course is also listed as HS 542 and GN 542, and is conducted on an arranged basis during the entire summer, terminating approximately September 15.)
- CS 641 Research (Arranged)
Both sessions. Hours arranged. Staff

ECONOMICS

- EC 201 Economics (3)
1st Session. 8:00-9:30 Bernard Olsen
 or 10:20-11:50 C. S. Shen
2nd Session. 8:00-9:30 Magdi El-Kammash
- EC 205 The Economic Process (3)
1st Session. 8:00-9:30 or 10:20-11:50 Cleon Harrell
2nd Session. 10:20-11:50 Magdi El-Kammash
- EC 312 Accounting for Engineers (3)
1st Session. 10:20-11:50 Emol Fails
2nd Session. 10:20-11:50 O. G. Thompson
- EC 401 Principles of Accounting (3)
1st Session. LR 8:00-9:30 LB arranged Emol Fails
- EC 407 Business Law I (3)
2nd Session. 8:00-9:30 Alice Hunt
- EC 409 Introduction to Production Costs (3)
2nd Session. 8:00-9:30 O. G. Thompson
- EC 425 Industrial Management (3)
1st Session. 8:00-9:30 T. W. Wood
- EC 426 Personnel Management (3)
1st Session. 10:20-11:50
- EC 431 Labor Problems (3)
2nd Session. 10:20-11:50 A. J. Bartley
- EC 432 Industrial Relations (3)
2nd Session. 8:00-9:30 A. J. Bartley
- EC 440 Economics of Growth (3)
1st Session. 10:20-11:50 Bernard Olsen

EDUCATION

- ED 100 Introduction to Industrial Education (2)
 June 11-June 28, 8:00-10:00 Floyd Gehres
- ED 305 Analysis of Technical Education Programs and
 Course Construction (3)
 June 11-June 28, 9:00-12:00 Mrs. Eloise Lewis
 and D. M. Hanson
- ED 308 Visual Aids (2)
Both sessions. Hours arranged. Charles H. Rogers
- ED 344 Secondary Education (2)
Both sessions. 9:00-10:00 Charles H. Rogers
- ED 410 Driver Education (3)
Both sessions. LR 8:00-9:30 LB arranged Albert Crawford

- ED 422 Methods of Teaching Industrial Subjects (4)
1st Session. 10:00-12:00
Floyd Gehres
- ED 502 Analysis of Reading Abilities (3)
1st Session. 8:00-9:30
P. J. Rust
- ED 503 Improvement of Reading Abilities (3)
1st Session. 10:20-11:50
P. J. Rust
- ED 516 Community Occupational Surveys (2)
July 1-July 19, 10:00-12:00
D. M. Hanson
- ED 520 Personnel and Guidance Services (3)
1st Session. 8:00-9:30
Staff
- ED 521 Organization of Related Study Materials (3)
June 11-June 28, 9:00-12:00
F. Smith
- ED 524 Occupational Information (3)
2nd Session. 8:00-9:30
C. G. Morehead
- ED 528 Principles and Practices in Industrial
Cooperative Training (3)
July 1-July 19, 1:00-4:00
Floyd Gehres
- ED 533 Organization and Administration of Guidance Services (3)
2nd Session. 10:20-11:50
C. G. Morehead
- ED 558 Special Problems in Teaching (Max. 6)
Both Sessions. Hours arranged.
C. C. Scarborough
- ED 563 Effective Teaching (3)
1st Session. 10:20-11:50
C. C. Scarborough
- ED 591 Special Problems in Industrial Education (1-3)
June 11-June 28, hours arranged.
D. M. Hanson and
Floyd Gehres
- ED 591 Special Problems in Industrial Education (1-3)
July 1-July 19, hours arranged
D. M. Hanson,
Floyd Gehres
and K. Oleson
- ED 610 Administration and Supervision of Vocation Education (3)
June 11-June 28, 8:00-9:30
Visiting professor
- ED 615 Introduction to Educational Research (3)
1st Session. 8:00-9:30
Norman M. Chansky
- ED 619 Seminar in Industrial Arts (1)
1st Session. Hours arranged.
Staff
- ED 621 Research in Agricultural Education (Max. 6)
1st Session. Hours arranged.
Staff
- ED 624 Research in Industrial Arts Education (Max. 6)
Both sessions. Hours arranged.
Ivan Hostetler
- ED 626 Seminar in Industrial Education (2)
June 11-June 28, 8:00-10:00
K. Oleson and
D. M. Hanson
- ED 627 Research in Industrial Education (Max. 6)
Both sessions. Hours arranged.
D. M. Hanson
- ED 633 Techniques in Guidance and Personnel (3)
1st Session. 10:20-11:50
Roy N. Anderson
- ED 641 Field Work in Occupational Information and Guidance (3)
1st Session. Hours arranged.
Roy N. Anderson
- ED 651 Research in Occupational Information and Guidance (3)
Both sessions. Hours arranged.
C. G. Morehead
- ED 664 Supervision in Agricultural Education (3)
1st Session. 8:00-9:30
C. C. Scarborough

ELECTRICAL ENGINEERING

- EE 202 Elementary Circuits and Fields (4)
Offered only in a 12-week sequence. The course counts for 2 semester hours in calculating loads for each session. Students should register for the complete course at registration for the 1st Session, noting the 12-week sequence on their rosters.
Both sessions. LR 9:10-10:10 or 10:20-11:20
Both sessions. LB 1:40-3:50 MW or TTh or MTh
W. P. Seagraves
E. F. Hill

EE 213	Elementary Circuits and Fields Lab. (1)	E. F. Hill
	<i>1st Session.</i> LB 1:40-3:50 MTh	
EE 320	Elements of Electrical Engineering (4)	F. S. Keblawi
	<i>1st Session.</i> LR 8:00-9:30 LB 1:40-4:20 MW or TTh	
EE 430	Essentials of Electrical Engineering (4)	F. S. Keblawi
	<i>2nd Session.</i> LR 8:00-9:30 LB 1:40-4:20 TTh	
EE 650	Electrical Engineering Research (Arranged)	Staff
	<i>Both sessions.</i> Hours arranged.	

ENGINEERING MECHANICS

EM 200	Introduction to Mechanics (3)	Staff
	<i>Both sessions.</i> LR 8:00-9:30 or 10:20-11:50	
EM 301	Solid Mechanics I (3)	Staff
	<i>Both sessions.</i> LR 8:00-9:30 or 10:20-11:50	
EM 303	Fluid Mechanics I (3)	Staff
	<i>Both sessions.</i> LR 8:00-9:30	
EM 699	Research in Mechanics (Arranged)	Staff
	<i>Both sessions.</i> Hours arranged.	

ENGLISH

ENG 100	English Refresher (x3)	Staff
	<i>1st Session.</i> 8:00-9:30	Staff
	<i>Both sessions.</i> 10:20-11:50	
ENG 111	Composition (3)	Staff
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	
ENG 112	Composition (3)	Staff
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	
ENG 205	Reading for Discovery (3)	Staff
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	
ENG 211	Business Communications (3)	A. B. R. Shelley
	<i>1st Session.</i> 10:20-11:50	
ENG 231	Basic Speaking Skills (3)	Jack Porter
	<i>1st Session.</i> 8:00-9:30 or 10:20-11:50	R. Baker Wynne
	<i>2nd Session.</i> 8:00-9:30 or 10:20-11:50	
ENG 321	Scientific Writing (3)	Philip Davis
	<i>1st Session.</i> 10:20-11:50	
ENG 362	Backgrounds of English Civilization II (3)	Benjamin Koonce
	<i>2nd Session.</i> 10:20-11:50	
ENG 365	The American Mind I (3)	H. G. Eldridge
	<i>1st Session.</i> 8:00-9:30	
ENG 366	The American Mind II (3)	H. G. Kincheloe
	<i>2nd Session.</i> 8:00-9:30	
ENG 424	Modern English Usage (3)	R. B. White
	<i>1st Session.</i> 10:20-11:50	
ENG 468	Major American Writers (3)	Max Halpern
	<i>2nd Session.</i> 8:00-9:30	
ENG 485	Shakespeare (3)	Porter Williams
	<i>1st Session.</i> 10:20-11:50	
ENG 498	Contemporary Literature (3)	Guy Owen
	<i>1st Session.</i> 8:00-9:30	

ENTOMOLOGY

ENT 590	Special Problems (Arranged)	Staff
	<i>Both sessions.</i> Hours arranged.	
ENT 690	Research (Arranged)	Staff
	<i>Both sessions.</i> Hours arranged.	

EXPERIMENTAL STATISTICS

ST 511	Statistical Methods I (3)	
	<i>1st Session.</i> 12:00-1:30	R. G. Petersen
ST 512	Statistical Methods II (3)	
	<i>1st Session.</i> 12:00-1:30	R. G. D. Steel
ST 521	Basic Statistical Inference (3)	
	(A 4½-week course beginning July 11 to follow MA 421)	
	7:30-9:40	Staff
ST 522	Basic Theory of Least Squares (3)	
	<i>1st Session.</i> 10:20-11:50	Staff
ST 531	Elements of Mathematical Biology (3)	
	<i>1st Session.</i> 1:40-3:10	R. W. Stacy and Richard A. Lang
ST 591	Introduction to Quantitative Methods and Models in Wildlife and Fisheries (3)	
	<i>1st Session.</i> 1:40-3:10	D. W. Hayne and W. S. Overton
ST 631	Theory of Sampling (3)	
	<i>1st Session.</i> 8:00-9:30	C. H. Proctor
ST 661	Intermediate Quantitative Methods and Models in Wildlife and Fisheries (3)	
	<i>1st Session.</i> 12:00-1:30	Douglas S. Robson
ST 671	Advanced Topics in Least Squares (3)	
	<i>1st Session.</i> 10:20-11:50	R. L. Anderson

FOOD SCIENCE

FS 602	Special Research Problems in Food Science (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff
FS 603	Research in Food Science (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff

GENETICS

GN 501	Principles of Genetics (3 or 4)	
	<i>1st Session.</i> LR 8:00-9:30 LB 10:00 12:00 MW or TTh	C. H. Bostian
GN 502	Special Topics in Genetics (2)	
	<i>1st Session.</i> LR 7:30-9:30 PM MW LB 2:00-4:00 TTh	Staff
GN 661	Research in Genetics (Arranged)	
	<i>1st Session.</i> Hours arranged.	Graduate staff
GN 671	Special Problems in Genetics (1-3)	
	<i>1st Session.</i> Hours arranged.	Graduate staff

HISTORY AND POLITICAL SCIENCE

HI 205	The Modern Western World (3)	
	<i>2nd Session.</i> 8:00-9:30	L. W. Barnhardt
HI 225	Modern Europe (3)	
	<i>1st Session.</i> 8:00-9:30	M. S. Downs
HI 226	Modern Europe (3)	
	<i>2nd Session.</i> 8:00-9:30	Stanley Suval
HI 245	History of European Civilization (3)	
	<i>1st Session.</i> 10:20-11:50	M. S. Downs
HI 246	History of European Civilization (3)	
	<i>2nd Session.</i> 10:20-11:50	Stanley Suval
HI 251	The United States Through Reconstruction (3)	
	<i>1st Session.</i> 10:20-11:50	C. F. Kolb
HI 252	The United States Since Reconstruction (3)	
	<i>2nd Session.</i> 10:20-11:50	L. W. Seegers

HI 261	The United States in Western Civilization (3)	
	<i>2nd Session.</i> 8:00-9:30	L. W. Seegers
HI 306	North Carolina History (2)	
	<i>2nd Session.</i> 10:20-11:50	L. W. Barnhardt
HI 412	Recent United States History (3)	
	<i>1st Session.</i> 8:00-9:30	C. F. Kolb
PS 201	The American Governmental System (3)	
	<i>1st Session.</i> 10:20-11:50	Staff
PS 406	Problems in State Government (3)	
	<i>1st Session.</i> 8:00-9:30	Staff

HORTICULTURAL SCIENCE

HS 301	Plant Propagation (3)	
	<i>1st Session.</i> LR 8:00-9:00 LB 1:40-4:20 MW	G. O. Randall
HS 324	Landscape Gardening (3)	
	<i>1st Session.</i> LR 10:20-11:20 LB 1:40-4:20 TTh	G. O. Randall
HS 501	Research Principles (3)	
	<i>1st Session.</i> Hours arranged.	Staff
HS 641	Research (Arranged)	
	<i>1st Session.</i> Hours arranged.	Staff

INDUSTRIAL ARTS

IA 104	Drafting II (3)	
	<i>2nd Session.</i> LR 10:20-1:00 M LB 10:20-1:00 TWThF	Robert Troxler
IA 107	Woods I (3)	
	<i>1st Session.</i> LR 10:20-1:00 M LB 10:20-1:00 TWThF	Paul Meosky
IA 108	Woods II (3)	
	<i>2nd Session.</i> LR 7:30-10:10 M LB 7:30-10:10 TWThF	Robert Troxler
IA 206	Metal Processing I (3)	
	<i>1st Session.</i> LR 7:30-10:10 M LB 7:30-10:10 TWThF	Paul Meosky
IA 207	Metal Processing II (3)	
	<i>2nd Session.</i> LR 7:30-10:10 M LB 7:30-10:10 TWThF	Carl Moeller
IA 308	Basic Electronics (3)	
	<i>1st Session.</i> LR 10:20-1:00 M LB 10:20-1:00 TWThF	Talmage Young
IA 315	General Ceramics (3)	
	<i>1st Session.</i> LR 7:30-10:10 M LB 7:30-10:10 TWThF	Ivan Hostetler
IA 480	Modern Industries (3)	
	<i>2nd Session.</i> LR 10:20-11:50	Carl Moeller
IA 560	New Developments in Industrial Arts (3)	
	<i>1st Session.</i> LR 10:20-11:50	Ivan Hostetler
IA 570	Laboratory Problems in Industrial Arts (Max. 6)	
	<i>1st Session.</i> Hours arranged.	Staff
IA 575	Special Problems in Industrial Arts (Max. 6)	
	<i>1st Session.</i> Hours arranged.	Staff
IA 595	Industrial Arts Workshop (3)	
	<i>1st Session.</i> LR 8:00-9:30	Talmage Young

INDUSTRIAL ENGINEERING

IE 201	Industrial Engineering I (3)	
	<i>1st Session.</i> LR 8:00-9:30	
IE 202	Industrial Engineering II (3)	
	<i>1st Session.</i> LR 10:20-11:35 LB 1:40-4:20 MWTh	Staff
IE 217	Machine Tools (1)	
	<i>1st Session.</i> LB 1:40-3:50 MTTh	Staff
IE 581	Project Work (Arranged)	
	<i>1st Session.</i> Hours arranged.	C. A. Anderson
IE 691	Industrial Engineering Research (Arranged)	
	<i>1st Session.</i> Hours arranged.	C. A. Anderson

MATHEMATICS

MA 2	Review Algebra (x4)	
	<i>Both sessions.</i> 8:00-10:10	Staff
MA 4	Solid Geometry (x2)	
	<i>Both sessions.</i> 10:20-11:20	Staff
MA 101	Algebra and Trigonometry (5)	
	<i>Both sessions.</i> 7:30-10:10 or 10:20-1:00	Staff
MA 102	Analytic Geometry and Calculus I (4)	
	<i>Both sessions.</i> 8:00-10:10 or 10:20-12:30	Staff
MA 107	Trigonometry (3)	
	<i>Both sessions.</i> 8:00-9:30	Staff
MA 111	Algebra and Trigonometry (4)	
	<i>1st Session.</i> 10:20-12:30	Staff
MA 112	Analytic Geometry and Calculus A (4)	
	<i>Both sessions.</i> 10:20-12:30	Staff
MA 122	Mathematics of Finance and Elementary Statistics (4)	
	<i>1st Session.</i> 8:00-10:10	Staff
MA 201	Analytic Geometry and Calculus II (4)	
	<i>Both sessions.</i> 8:00-10:10 or 10:20-12:30	Staff
MA 202	Analytic Geometry and Calculus III (4)	
	<i>Both sessions.</i> 8:00-10:10 or 10:20-12:30	Staff
MA 301	Differential Equations I (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff
MA 302	Theory of Equations (3)	
	<i>2nd Session.</i> 10:20-11:50	Staff
MA 401	Intermediate Differential Equations (3)	
	<i>1st Session.</i> 8:00-9:30	Staff
	<i>2nd Session.</i> 12:00-1:30	Staff
MA 403	Fundamental Concepts of Algebra (3)	
	<i>1st Session.</i> 12:00-1:30	Staff
MA 405	Introduction to Determinants and Matrices (3)	
	<i>Both sessions.</i> 10:20-11:50	Staff
MA 421	Theory of Probability I (3)	
	<i>1st Session.</i> 7:30-9:40	Staff
	(Course to be completed in $4\frac{1}{2}$ weeks.)	
MA 433	History of Mathematics (3)	
	<i>2nd Session.</i> 8:00-9:30	Staff
MA 441	Advanced Calculus I (3)	
	<i>1st Session.</i> 8:00-9:30 or 10:20-11:50	Staff
MA 481a	Analysis for Biologists (3)	
	<i>1st Session.</i> 8:00-9:30	Staff
MA 481a	Modern Algebra for Biologists (3)	
	<i>1st Session.</i> 10:20-11:50	Staff
MA 512	Advanced Calculus II (3)	
	<i>1st Session.</i> 1:40-3:10	Staff
	<i>2nd Session.</i> 8:00-9:30 or 10:20-11:50	Staff
MA 513	Advanced Calculus III (3)	
	<i>2nd Session.</i> 8:00-9:30	Staff
MA 514	Methods of Applied Mathematics (3)	
	<i>1st Session.</i> 1:40-3:10	Staff
MA 523	Theory of Probability II (3)	
	<i>1st Session.</i> 12:00-1:30	Staff
MA 527	Numerical Analysis I (3)	
	<i>2nd Session.</i> 10:20-11:50	Staff
MA 581	Operations Research (3)	
	<i>1st Session.</i> 1:40-3:10	Staff
*MA 622	Vector Spaces and Matrices ($1\frac{1}{2}$)	
	<i>Both sessions.</i> 10:20-11:20 MTWTh	Staff
*MA 632	Operational Mathematics I ($1\frac{1}{2}$)	
	<i>Both sessions.</i> 8:00-9:00 MTWTh	Staff

- MA 685 Functional Analysis with Applications in Numerical Analysis (3)
1st Session. Hours arranged J. W. Carr
 MA 691 Research in Mathematics (Arranged) Staff
Both sessions. Hours arranged.
 * Ten-week courses starting in 1st Session, offered four days a week for a total of three credit hours.

MECHANICAL ENGINEERING

- ME 101 Engineering Graphics I (2)
1st Session. LB 1:40-3:50 N. M. Beatty
2nd Session. LB 10:20-12:30 K. R. Crump
 ME 102 Engineering Graphics II (2)
Both sessions. LB 8:00-10:10 E. H. Stinson
1st Session. LB 10:20-12:30 E. H. Stinson
 ME 301 Engineering Thermodynamics I (3)
1st Session. LR 8:00-9:30 R. J. Parakh
 or 10:20-11:50 M. R. El-Saden
 ME 302 Engineering Thermodynamics II (3)
2nd Session. LR 8:00-9:30 M. R. El-Saden
 ME 303 Engineering Thermodynamics III (3)
2nd Session. LR 10:20-11:50 T. Cebeci
 ME 305 Mechanical Engineering Lab I (1)
1st Session. LB 1:40-5:50 MW L. J. Pavagadhi
 ME 306 Mechanical Engineering Lab II (1)
2nd Session. LB 1:40-5:50 MW L. J. Pavagadhi
 ME 311 Kinematics (3)
1st Session. LR 8:00-9:30 C. S. Rudisill
 or 10:20-11:50 L. J. Pavagadhi
 ME 312 Dynamics Analysis (3)
2nd Session. LR 8:00-9:30 T. Cebeci
 or 10:20-11:50 L. J. Pavagadhi
 ME 412 Machine Design (3)
1st Session. Hours arranged. J. Manzo
 ME 601 Advanced Engineering Thermodynamics (3)
1st Session. Hours arranged. M. R. El-Saden
 ME 602 Statistical Thermodynamics (3)
2nd Session. Hours arranged. M. R. El-Saden
 ME 645 Mechanical Engineering Research (1-6) Staff
Both sessions. Hours arranged.

MINERAL INDUSTRIES

- MIM 201 Structure and Properties of Engineering Material (3)
1st Session. LR 12:00-1:00 LB 1:00-4:00 MWF J. M. Waller
 MIM 421 Metallurgy I (2) *1st Session.* LR 12:00-1:00 L. E. Poteat
 MIM 422 Metallurgy II (2) *2nd Session.* LR 12:00-1:00 L. E. Poteat
 MIM 423 Metallurgy Lab (1) *1st Session.* LB 1:00-4:00 MWF L. E. Poteat
 MIM 545 Adv. Metallurgical Experiments (3) *1st Session.* Hrs. arrg. Staff
 MIM 695 Metallurgical Eng. Research (3) *1st Session.* Hrs. arrg. Staff
 MIC 650 Ceramic Research (3) *1st Session.* Hours arranged. Staff
 MIC 661 Special Studies in CRE (3) *1st Session.* Hours arranged. Staff
 MIG 691 Geological Research (3) *1st Session.* Hours arranged. Staff

MODERN LANGUAGES

- MLR 101 Elementary Russian (3)
1st Session. 8:00-9:30 H. L. Titus
 MLC 101 Elementary German (3)
1st Session. 8:00-9:30 or 10:20-11:50 S. E. Simonsen

- MLG 102 German Grammar and Prose Reading (3)
2nd Session. 8:00-9:30 or 10:20-11:50 B. Howard
- MLF 401 French Grammar for Graduates (3)
1st Session. 10:20-11:50 S. T. Ballenger
- MLG 401 German Grammar for Graduates (3)
1st Session. 8:00-9:30 B. Howard and R. B. Hall
 or 10:20-11:50 B. Howard
2nd Session. 8:00-9:30 E. Ritter
- MLS 401 Spanish Grammar for Graduates (3)
1st Session. 8:00-9:30 S. T. Ballenger
- MLF 402 Introduction to Scientific French (3)
1st Session. To be announced. G. W. Poland
2nd Session. To be announced. S. T. Ballenger
- MLG 402 Scientific German (3)
1st Session. 8:00-9:30 R. B. Hall
 or 10:20-11:50 H. L. Titus
2nd Session. 8:00-9:30 or 10:20-11:50 F. J. Allred
- MLS 402 Technical Spanish (3)
1st Session. To be announced. G. W. Poland
2nd Session. To be announced. S. T. Ballenger

MUSIC

- MU 200 Music in Our Contemporary Life (3)
2nd Session. 10:20-11:50 Staff

NUCLEAR ENGINEERING

- NE 699 Research (1-6)
Both sessions. Hours arranged. Staff

PHILOSOPHY AND RELIGION

- PHI 201 Logic (3)
1st Session. 8:00-9:30 or 10:20-11:50 William Kurylo
2nd Session. 10:20-11:50 or 12:00-1:30 C. J. Bradner
- PHI 205 Problems and Types of Philosophy (3)
2nd Session. 8:00-9:30 or 10:20-11:50 W. C. Fitzgerald
- PHI 306 Philosophy of Art (3)
1st Session. 10:20-11:50 Paul Bredenberg
- PHI 309 Marriage and Family Living (3)
1st Session. 8:00-9:30 W. N. Hicks
 or 10:20-11:50 J. L. Middleton
- PHI 405 Foundations of Science (3)
1st Session. 8:00-9:30 Paul Bredenberg
- REL 302 The Bible and Its Background (3)
2nd Session. 8:00-9:30 W. L. Highfill
- REL 403 Religions of the World (3)
2nd Session. 10:20-11:50 W. L. Highfill

PHYSICAL EDUCATION

Any one of the following activities may be taken as PE 101, PE 102, PE 202, PE 301, PE 302, PE 303, or PE 304. No activity may be repeated for credit.

- Angling (1)
1st Session. 12:00-1:00 W. E. Smith
2nd Session. 10:20-11:20 W. E. Smith
- Badminton (1)
1st Session. 1:10-2:10 W. E. Smith

Golf (1)	
1st Session. 8:00-9:00, 10:20-11:20 or 1:10-2:10	N. E. Cooper
2nd Session. 9:10-10:10, 12:00-1:00 or 1:40-2:40	J. B. Edwards
Softball (1)	
1st Session. 12:00-1:00	N. E. Cooper
2nd Session. 10:20-11:20	J. B. Edwards
Swimming (1)	
1st Session. 12:00-1:00	H. O. Floyd
2nd Session. 12:00-1:00	W. E. Smith
Tennis (1)	
1st Session. 9:10-10:10 or 1:40-2:40	W. E. Smith and H. O. Floyd
2nd Session. 8:00-9:00 or 1:10-2:10	Staff
Volleyball (1)	
1st Session. 10:20-11:20	H. O. Floyd
2nd Session. 12:00-1:00	Staff
Weight Training (1)	
1st Session. 9:10-10:10	Staff
2nd Session. 9:10-10:10	H. O. Floyd

PHYSICS

PY 201 General Physics (5)	
1st Session. LR 8:00-10:10 or 10:20-12:30 LB 1:40-3:50 MW or TTh	Staff
2nd Session. LR 10:20-12:30 LB 1:40-3:50 MW	Staff
PY 202 General Physics (5)	
Both sessions. LR 8:00-10:10 or 10:20-12:30 LB 1:40-3:50 MW or TTh	Staff.
PY 205 General Physics (4)	
1st Session. LR 8:00-9:30 LB 1:40-3:50 TTh	Staff
PY 211 General Physics (4)	
1st Session. LR 8:00-9:30 or 10:20-11:50 LB 1:40-3:50 MW or TTh	Staff
2nd Session. LR 8:00-9:30 LB 1:40-3:50 TTh	Staff
PY 212 General Physics (4)	
Both sessions. 8:00-9:30 LB 1:40-3:50 MW or TTh	Staff
PY 221 College Physics (5)	
Both sessions. LR 7:30-10:10	Staff
PY 407 Introduction to Modern Physics (3)	
Both sessions. LR 8:00-9:30	Staff
PY 410 Nuclear Physics I (4)	
1st Session. LR 10:20-11:50 LB 1:40-3:50 TTh	Staff
PY 510 Nuclear Physics II (4)	
1st Session. LR 7:30-9:00 LB arranged	Staff
PY 670 Seminar (1)	
Both sessions. LR 1:00-2:30 MW	Staff
PY 690 Research (1-6)	
Both sessions. Hours arranged	Staff

PLANT PATHOLOGY

PP 615 Research in Plant Pathology (Arranged)	
Both sessions. Hours arranged.	Staff

POLITICAL SCIENCE

(See History and Political Science)

POULTRY SCIENCE

PO 201 Poultry Production (4)	
1st Session. LR 10:20-11:50 LB 1:40-4:20 TTh	T. T. Brown

PO 611 Poultry Research (Max. 6)	
1st Session. Hour arranged.	Staff
PO 613 Special Problems in Poultry Science (Max. 6)	
1st Session. Hours arranged.	Staff

PSYCHOLOGY

PSY 200 Introduction to Psychology (3)	
1st Session. 8:00-9:30 or 10:20-11:50	Staff and N. M. Chansky
2nd Session. 8:00-9:30 or 10:20-11:50	Staff
PSY 302 Psychology of Personality and Adjustment (3)	
2nd Session. 8:00-9:30	H. M. Corter
PSY 304 Educational Psychology (3)	
1st Session. 10:20-11:50	J. C. Johnson
PSY 476 Adolescent Psychology (2)	
1st Session. 12:00-1:00	K. L. Barkley
PSY 535 Tests and Measurements (3)	
1st Session. 8:00-9:30	J. C. Johnson
PSY 550 Mental Hygiene in Teaching (3)	
1st Session. 10:20-11:50	K. L. Barkley
PSY 570 Theories of Personality (3)	
1st Session. 8:00-9:30	H. M. Corter
PSY 571 Individual Intelligence Measurement (3)	
2nd Session. Hours arranged.	H. M. Corter
PSY 576 Developmental Psychology (3)	
1st Session. 10:20-11:50	H. M. Corter
PSY 609 Psychological Clinic Practicum (Max. 9)	
Both sessions. Hours arranged.	H. M. Corter
PSY 613 Research in Psychology (3)	
Both sessions. Hours arranged.	Staff
PSY 672 Personality Measurement (3)	
2nd Session. Hours arranged.	H. M. Corter

RECREATION AND PARK ADMINISTRATION

RPA 152 Introduction to Recreation (3)	
Both sessions. 8:00-9:30	Staff
RPA 153 The Aquatic Program (2)	
2nd Session. 10:20-11:20	Charles C. Stott
RPA 253 Principles of Physical Education (3)	
Both sessions. 10:20-11:50	Staff
RPA 301 Organization and Administration of Physical Education (3)	
2nd Session. 8:00-9:30	Staff
RPA 333 First Aid and Safety (2)	
Both sessions. LR 10:20-11:50 MWF LB arranged	Staff
RPA 353 Camp Organization and Leadership (3)	
Both sessions. LR 9:10-10:10 LB arranged.	Charles C. Stott
RPA 360 Individual Corrective and Adapted Activities (3)	Thomas I. Hines
1st Session. 10:20-11:50	Albert Crawford
RPA 365 Methods and Materials in Health and Physical Education (3)	
2nd Session. 10:20-11:50	Staff
RPA 470 Supervised Practice (6)	
Nine-weeks course starting 1st Session.	L. L. Miller and Thomas I. Hines

RURAL SOCIOLOGY

RS 642 Research (Arranged)	
Both sessions. Hours arranged.	Staff

SOCIAL STUDIES

SS 301	Science and Civilization (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff
SS 302	Science and Civilization (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff
SS 491	Contemporary Issues (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff
SS 492	Contemporary Issues (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff
SS 492	Contemporary Issues (3)	
	<i>Both sessions.</i> 8:00-9:30 or 10:20-11:50	Staff

SOCIOLOGY AND ANTHROPOLOGY

SOC 202	Principles of Sociology (3)	
	<i>1st Session.</i> 8:00-9:30 or 10:20-11:50	Gilbert Hardee, Staff
	<i>2nd Session.</i> 10:20-11:50	Herbert Collins
SOC 301	Human Behavior (3)	
	<i>1st Session.</i> 8:00-9:30	John Tomlin
	or 10:20-11:50	Sanford Winston
SOC 303	Current Social Problems (3)	
	<i>1st Session.</i> 8:00-9:30	Sanford Winston
	<i>2nd Session.</i> 10:20-11:50	Elmer Johnson
SOC 304	Contemporary Family Life (3)	
	<i>1st Session.</i> 10:20-11:50	Gilbert Hardee
	<i>2nd Session.</i> 12:00-1:30	Staff
SOC 306	Criminology (3)	
	<i>2nd Session.</i> 8:00-9:30	Elmer Johnson
SOC 401	Human Relations in Industrial Society (3)	
	<i>1st Session.</i> 12:00-1:30	John Tomlin
	<i>2nd Session.</i> 8:00-9:30	Herbert Collins

SOIL SCIENCE

SSC 560	North Carolina Soils and Their Management (3)	
	<i>1st Session.</i> Hours arranged.	
	(SSC 560 will study selected soil series in the field for approximately ten full days.) R. J. McCracken, J. W. Fitts, J. M. Spain	
SSC 570	Special Problems (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Graduate Staff
SSC 690	Research (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Graduate Staff

TEXTILES

TX 221	Fundamentals of Textiles (3)	
	<i>1st Session.</i> LR 7:30-8:30 LB 1:40-4:20 TTh	W. E. Moser
TX 261	Fabric Structure (3)	
	<i>1st Session.</i> LR 10:20-11:20 LB 1:40-4:20 TTh	E. B. Berry
TX 281	Fiber Quality (3)	
	<i>1st Session.</i> LR 9:10-10:10 LB 1:40-4:20 MW	W. E. Moser
TX 303	Fiber and Yarn Technology (4)	
	<i>1st Session.</i> LR 7:30-9:00 LB 1:40-4:20 TTh	J. E. Pardue
TX 304	Fiber and Yarn Technology (4)	
	<i>2nd Session.</i> LR 10:20-11:50 LB 1:40-4:20 TTh	L. T. Lassiter
TX 327	Textile Testing (4)	
	<i>1st Session.</i> LR 10:20-11:50 LB 1:40-4:20 TTh	L. T. Lassiter

TX 342	Knitting Principles (2)	
	<i>2nd Session.</i> LR 9:10-10:10	H. M. Middleton
TX 365	Fabric Technology (4)	
	<i>1st Session.</i> LR 10:20-11:50 LB 1:40-4:20 MW	J. A. Porter
TX 366	Fabric Technology (4)	
	<i>2nd Session.</i> LR 7:30-9:00 LB 1:40 4:20 MW	E. B. Berry
TX 436	Staple Fiber Processing (3)	
	<i>1st Session.</i> LR 9:10-10:10 LB 1:40-4:20 TTh	J. E. Pardue
TX 442	Knitted Fabrics (3)	
	<i>2nd Session.</i> LB 7:30-8:30 LB 1:40-4:20 TTh	H. M. Middleton
TX 483	Textile Cost Methods (2)	
	<i>2nd Session.</i> LR 12:00-1:00	W. K. Lynch
TX 601	Yarn Manufacture (3 arranged.)	
	<i>1st Session.</i> Hours arranged.	E. B. Grover
TX 602	Yarn Manufacture (3 arranged.)	
	<i>2nd Session.</i> Hours arranged.	E. B. Grover
TX 621	Textile Testing III (2 arranged.)	
	<i>1st Session.</i> Hours arranged.	D. S. Hamby
TX 681	Textile Research for Textile Technology (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Graduate Staff
TX 681	Textile Research for Textile Chemistry (Arranged)	
	<i>Both sessions.</i> Hours arranged.	H. A. Rutherford
TC 307	Textile Chemistry II (4)	
	<i>1st Session.</i> LR 12:00-1:30 LB 1:40-4:20 MW	A. C. Hayes
TC 421	Fabric Finishing (2)	
	<i>1st Session.</i> LR 8:00-9:00	A. C. Hayes

ZOOLOGY

ZO 571	Special Studies (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff
ZO 641	Research in Zoology (Arranged)	
	<i>Both sessions.</i> Hours arranged.	Staff

DIRECTIONS TO SUMMER SESSION APPLICANTS

All applicants for the Summer Sessions who are *not now* in residence at State College *must* fill out Forms A and B. All visiting students (those who will not apply for admission to the college in the fall semester) *must* also fill out Form C. Applicants who wish dormitory reservations should fill out a "Request for Dormitory Room Reservation." Students in residence at State College during the spring semester should follow the instructions (under REGISTRATION) concerning permits. All students should read the appropriate instructions under ADMISSIONS, REGISTRATION, and HOUSING before filling out the attached forms.

Forms A, B, and C *must* be sent to the Director of Summer Sessions, Room 101, Pullen Hall, N. C. State College, Raleigh, N. C.

REQUEST FOR DORMITORY ROOM RESERVATION *must* be forwarded *with remittance* to the Business Office, Holladay Hall, and to no other office. Dormitory reservations for women must be submitted not later than May 25.

No advance payment of registration and tuition fees will be accepted. Payment of registration and tuition fees must be made on registration day.

APPLICATION FOR COURSE ENROLLMENT

This form is designed to assist you in securing a place in the courses of your choice. It does not constitute a guarantee of admission to the College. Return the completed form to the Director of Summer Sessions. If, after you have returned the form, you decide not to attend the Summer Sessions or wish to change the courses, notify the Director as soon as possible.

NAME _____
 Last First Middle (Mr., Miss, Mrs.)

MAILING ADDRESS _____
 Street and number City State

For each course you plan to take, list the IBM symbol and numerical designator (CH 101, for example), the name of the course, number of credits, and the time (i.e., 9:00-10:20, etc.) at which you plan to take the course.

FIRST SESSION

SYMBOL (Dept. and Number)	COURSE NAME	SEMESTER CREDITS	TIME DESIRED
_____	_____	() _____	_____
_____	_____	() _____	_____
_____	_____	() _____	_____
_____	_____	() _____	_____

SECOND SESSION

_____	_____	() _____	_____
_____	_____	() _____	_____
_____	_____	() _____	_____
_____	_____	() _____	_____

Give the name and location of the high school from which you graduated or are now attending.

Name	Location	Year of Graduation
------	----------	-----------------------

List all colleges attended with dates and degrees (if any)

College	Degree	Year
_____	_____	_____
_____	_____	_____
_____	_____	_____

Check one: ☐ New Freshman ☐ Visitor for Summer Credit
☐ New Transfer ☐ Visitor for Teacher Certification
☐ Graduate credit (For "A" or lower certificates)
☐ Readmission ☐ Visitor for Auditing
☐ ☐ Visitor as Special—No Credit

 Signature

FORM A

GENERAL INFORMATION NEEDED FROM SUMMER SESSION APPLICANTS

NAME _____
(Last) (First) (Middle) (Mr., Miss, Mrs.)

PERMANENT ADDRESS _____
(Number and Street) (City) (County) (State)

PRESENT MAILING ADDRESS _____
(If different from above)

Have you ever attended N. C. State College before? _____ When? _____

How were you classified? _____ Do you plan to enroll as a regular

student (expecting to continue during the regular school year which begins in September?) _____

SPECIAL NOTE: If you plan to attend the Summer Sessions only (and not enroll for the regular session later), please fill out the reverse side of this form. If you plan to continue here during the regular school year, we will send you a formal application.

FORM B

APPLICATION FOR ADMISSION TO NORTH CAROLINA STATE COLLEGE SUMMER SESSION

(Do not fill out this blank if you wish to apply for admission and continue to attend this institution during the regular school year, September to June)

NAME _____ (Last) _____ (First) _____ (Middle) _____ (Mr., Miss, Mrs.)

HOME ADDRESS _____ (Permanent) _____ (Number and Street) _____ (City) _____ (County) _____ (State)

HAVE YOU GRADUATED FROM HIGH SCHOOL? _____ LAST COLLEGE ATTENDED _____

HAVE YOU EVER ATTENDED N. C. STATE COLLEGE? _____ WHEN? _____

ARE YOU ENROLLING FOR CREDIT TOWARD A DEGREE AT N. C. STATE COLLEGE? _____

ARE YOU ENROLLING FOR GRADUATE CREDIT? _____ SPECIAL NOTE: Students registering for the first time for graduate work must secure the approval of the Dean of the Graduate School. Such students will not use this application blank.

WHEN DO YOU DESIRE TO ENTER? _____

IF YOU DESIRE A TRANSCRIPT OF YOUR SUMMER RECORD SENT TO ANOTHER COLLEGE OR DIVISION OF TEACHER CERTIFICATION, PLEASE STATE WHERE. _____

I UNDERSTAND THAT MY ENROLLMENT IN THE SUMMER SESSION DOES NOT GIVE ME ANY PRIORITY TO CONTINUE IN COLLEGE THIS SEPTEMBER.

(Student's Signature)

CLASSIFICATION _____ (Not to be filled in by student) _____ Date _____

FORM C

For office use only
Status 58
Sex 59
School 60-61
Class 62-63
Curr. 64-65-66
Res. 67-68-69 70 71-72
Sem. Yr.
Alpha No. 75-76-77-78-79-80

WHERE TO WRITE . . .

For general information concerning the Summer Sessions:

Office of the Summer Sessions
101 Pullen Hall
N. C. State
Raleigh, North Carolina

For information concerning Agricultural Extension courses:

Professor Fred S. Sloan
109 Ricks Hall
N. C. State
Raleigh, North Carolina

For information on the Counseling and Guidance Institute:

Dr. Charles G. Morehead, Director
Counseling and Guidance Institute
Department of Occupational Information and Guidance
School of Education
N. C. State
Raleigh, North Carolina

For information on Professional Improvement for Industrial Education Teachers and Supervisors:

Dr. Durwin M. Hanson
Department of Industrial Education
219 1911 Building
N. C. State
Raleigh, North Carolina

For information regarding the Nuclear Energy Summer Institutes Program:

The American Society for Engineering Education
University of Illinois
Urbana, Illinois

Send application for admission or re-admission to:

Kenneth D. Raab
13 Holladay Hall
N. C. State
Raleigh, North Carolina

Send applications for dormitory reservations to:

Business Office
Holladay Hall
N. C. State
Raleigh, North Carolina

PRINT IN INK

Full Name _____ (Last) _____ (First) _____ (Middle) _____

Street _____

City _____ State _____

Class: Fr.-Soph.-Jr.-Sr.-Pr.-Grad. Curriculum _____
(circle one)

This request for session beginning _____ 196 _____

Dormitory preference: (1) _____ (2) _____

Roommate preference: _____

(Conditional—See Par. 3 Reverse Side)

(Do not write in this space)

Date Received: _____

Date Assigned: _____

Room	Dormitory	P. O. Box
RAVIES		
Room Rent	Fall-Spring Semester \$85.00	Six Weeks Summer Session \$30.00
Linen Service if desired	10.00	5.00
Circle amount enclosed:	\$85	\$95 \$30 \$35

ATTENTION SCHOLARSHIP HOLDERS: If your scholarship is paid directly to the College by the donor, you may return this form without payment. Indicate source of scholarship below:

Read Instructions On Reverse Side

CONTINUING STUDENTS:		PAYMENT INFORMATION		NEW STUDENTS:	
Payment is due on or before dates listed—no reminder will be mailed to you.	Fall Spring 1st Summer 2nd Summer	July 1 Jan. 10 May 10 July 1	Do not send payment prior to these dates but as soon thereafter as possible to insure room assignment	Fall Spring 1st Summer 2nd Summer	June 1 Jan. 1 May 1 June 15

FORMER STUDENTS: If not enrolled the previous session, submit payment according to new student dates.

1. Full payment of rent must be made or acceptable scholarship indicated (see PAYMENT INFORMATION on other side). **Assignments will be made on basis of date of payment as long as space is available. MAIL RESERVATION CARD AND PAYMENT IN SELF-ADDRESSED ENVELOPE PROVIDED.**
2. Due to limited space, three students may be assigned to a room temporarily.
3. Roommate preferences will be honored, if possible, provided both applicants **make written requests and send in their payments TOGETHER.**
4. Refund of rent will be made less a \$10 room reservation fee if the reservation is cancelled by applicant.
5. Male freshmen are required to occupy College housing unless they are veterans, married and living with wife, or living with parents or relatives. Each of these freshmen must make application to the Director of Student Housing for permission to live off campus.
6. The Fall Semester, students will report to their Dormitory for keys. Other sessions, students will report to the Housing Rental Office for keys. Students must check in and secure keys on or before the first day of the registration period or the reservation will be cancelled. Rooms will be available for occupancy on the day prior to the New Student Orientation Period.
7. New students must be cleared for enrollment and former students must be eligible for readmission.
8. Room assignments are not transferable to other applicants.
9. **LINEN RENTAL PLAN:** (1) Weekly exchange of 2 sheets, 1 pillow case, and 3 bath towels during the period of the contract. Customers contracting for Linen Rental Service prior to arrival will be issued the first set of linen when they check in their dormitory.
10. \$2.00 key deposit will be charged when dormitory keys are issued.

RALEIGH, N. C.



1963

Summer Sessions

N. C. STATE COLLEGE

OF THE UNIVERSITY OF NORTH CAROLINA

